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N.T.S. 31C/11

REPORT OF
GEOLOGY, PROSPECTING, AND TRENCHING
BLACK RIVER PROPERTY,
GRIMSTHORPE TOWNSHIP, ONTARIO

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SUMMARY

The Black River property is located in Grimsthorpe Township, 32 km northeast of the town of Madoc, Ontario. Although the Madoc-Bancroft region has shown quite an extensive history of mineral exploration, there is no record of prospecting activities within the area of the Black River property.

The property is underlain by Middle to Late Proterozoic mafic metavolcanic and metasedimentary rocks of the Grenville Structural Province. General trend of these rocks across the property is NW-SE.

During the fall of 1991 a number of gold discoveries were made along the Black River and along a swamp filled extensional lineament to the river. Quartz veins up to 0.5 m wide occur in locally sheared and/or silicified areas of a metasedimentary unit consisting of beds of a quartz-feldspar-biotite rich rock, greywacke, argillites, and graphitic schists. This metasedimentary unit has been traced at various intervals for a distance of over 5 kilometres. Some of the gold showings have been traced for distances greater than 700 metres along this trend.

An electromagnetic survey and a magnetic survey have coincidental conductors and anomalies with some of the known gold occurrences. The surveys have located other targets along the 5 km trend which may be potential host environments for gold mineralization.

I. INTRODUCTION

SCOPE

This report summarizes the results of the 1992 program of geological mapping, prospecting, and trenching on Black River property, Grimsthorpe Township, Ontario. Maps with the results of this program are appended to this report.

LOCATION AND ACCESS

The Black River property is located in Grimsthorpe Township. The property is approximately 30 km northeast of Madoc, Ontario. Access can be made by following Highway 62 north from Madoc to the village of Gilmour. 4 km east of Gilmour is the turn for the Skootamatta Lake Access Road. The property begins at the intersection of the Skootamatta Lake Access Road and the Lingham Lake Access Road (figure 1).

The property is covered by N.T.S. sheet 31C/11.

PROPERTY AND STATUS

The property consists of twelve contiguous unpatented mining claims consisting of twenty six units of 20 hectare size (figure 2). The claim numbers are S01150984 to S01150986 inclusive, S01156635, S01156636, S01156650, S01156653, S01156654, S01194942, S01194943, S01194973, S01194974.

All claims are held by Mr. R.J. Dillman of London, Ontario.

LOGISTICS

During the 1992 program a cut baseline was extended 3900 metres on a bearing of 300 degrees making the total length of the baseline 5000 m. Crosslines, every 100 m, were flagged and compassed establishing grid coverage over most the river area.

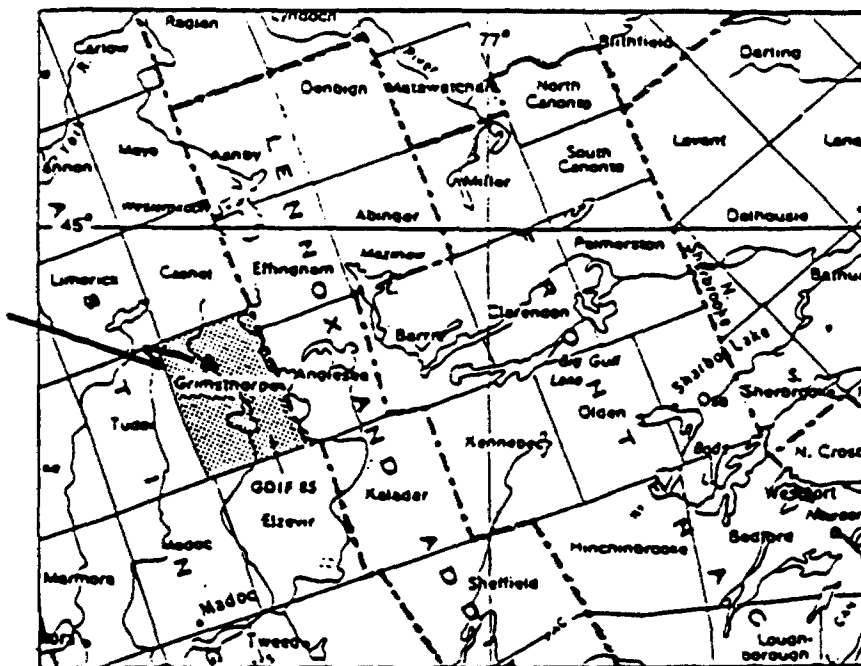
Geological information is plotted on three appended maps at the scale of 1:2,500. Rock sample locations are plotted on the geological maps. Sample descriptions are summarized within this report. Trench plans are plotted on the scale of 1:25 and 1:50. Trench locations are given on each plan and on the geological maps.

Geological mapping, prospecting and trenching have been carried out by Mr. R.J. Dillman between September 21 to November 17, 1992.

TOPOGRAPHY AND LAND-USE

Airphotos of the property reveal many small ponds and streams, the largest of which is the Black River. These

Property
Location



1 inch=16 miles

PROJECT LOCATION

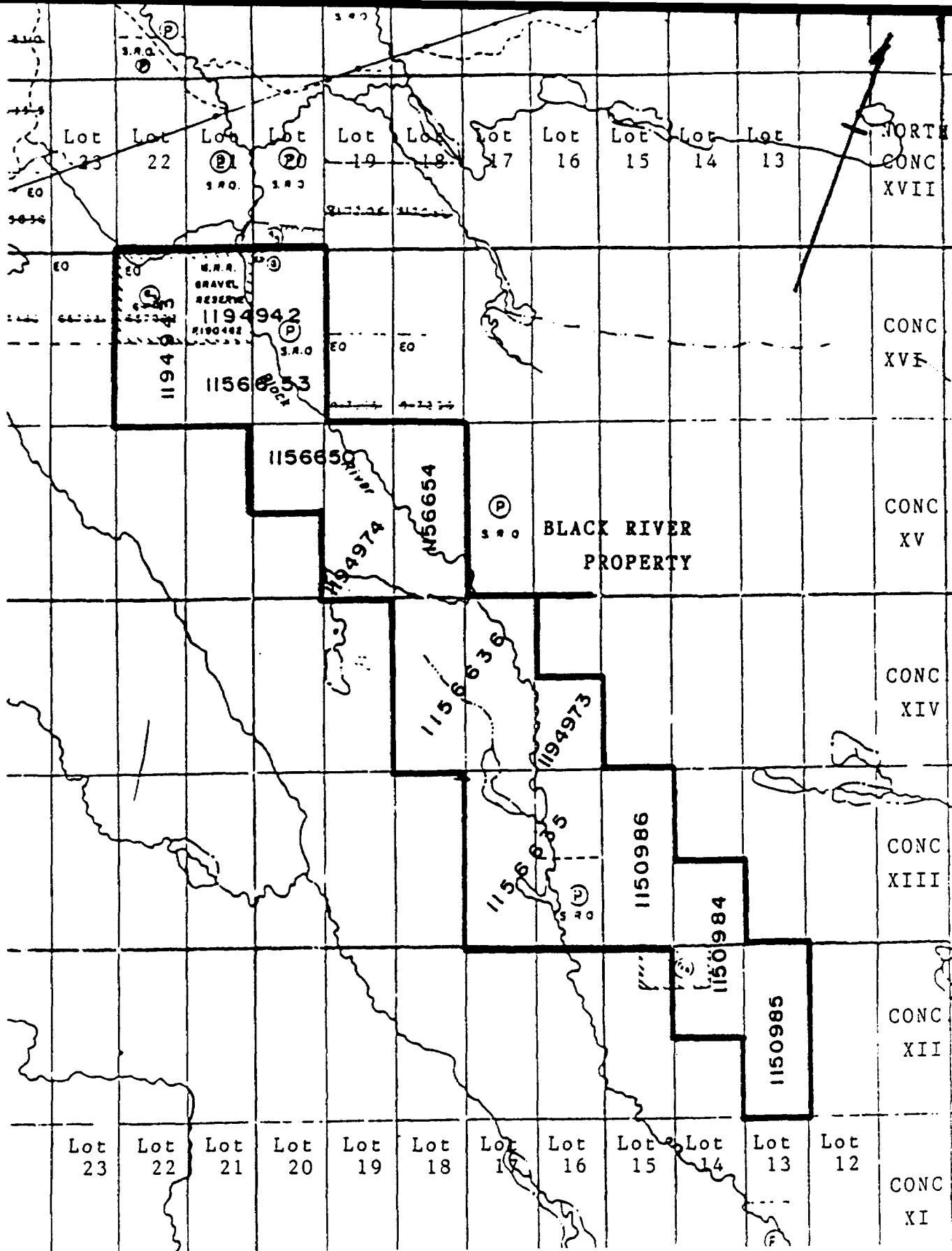


FIGURE 2

BLACK RIVER CLAIM GROUP
 GRIMSTHORPE TOWNSHIP, ONTARIO
 PLAN: M97

features are confined to topographical lineaments. The largest and most continual set of lineaments prefer a N-NW orientation. These lineaments are offset in places by a weaker set on a NE orientation.

The highest elevations on the property are found east of the Black River. This area is dominated by large outcrops of mafic metavolcanics and shallow overburden consisting of localized till. Outcrop exposure is approximately 75% in this area.

West of the Black River the land is much flatter and outcrop exposure decreases to approximately 10%. Outcrops are confined to the highest elevations and along the sides of depressions. Large areas of land are till covered and most depressions contain swamp or bog.

Most of the overburden on the property is glacial derived. Tills dominate west of the river. They consist of different sized, angular material made up of locally sourced mafic metavolcanic rock and regional sourced, rounded granite boulders. In some isolated areas the tills consist of well-sorted sand and gravel. Striations measured on outcrop surfaces suggest glacial advancement was from N.4 degrees E.

Vegetation on the property is variable. Hardwoods such as birch, maple, and oak grow in the higher elevations. White pine, spruce, and balsam occur in flatter areas. Lower areas have jack-pine, balsam, and alders.

Recently, there has been very limited logging activities conducted west of the Lingham Lake Access Road. Other industrial land-use includes sand and gravel extraction in the north section of the property. Recreational land-use only appears to be hunting and for this purpose a number of small cabins are located within the property boundary.

PREVIOUS EXPLORATION ACTIVITIES

Grimsthorpe Township has a sketchy history of mineral exploration. Except for the 1991 survey no evidence has been found to suggest that the claim group has ever been prospected. There is also no report of work filed with the Ministry of Natural Resources for the area of the property.

Mineral exploration, mainly for gold, has been concentrated in the western and northwestern regions of the township. During 1909 to 1914, gold was produced from the Gilmour Mine in lot 30, concession 19. This mine has the only record of production in Grimsthorpe Township.

Talc was discovered in 1910 in lots 8, 9, and 10, concession 5.

Regional geology was first mapped by Meen and Harding (1942). They reported talc occurrences in lot 13, conc. 4. They also reported numerous sulphide occurrences in meta-sedimentary schists in the Lingham Lake area.

In 1954, Stratmat Limited carried out a ground electromagnetic survey over the talc occurrences in lot 13, conc. 4.

In 1955, drilling was performed on the claim group referred to as the McMurray Group. A total of 793 feet were drilled to test an arsenic occurrence in lot 33, concession 11.

After 1955, the Gilmour Mine and the area in proximity to the mine appear to be the only area of interest for mineral exploration. Currently this area is held by Homestake Minerals.

In 1990, much of Grimsthorpe Township and neighboring Anglesea Township were mapped by R.M. Easton of the Ontario Geological Survey.

Gold was discovered in the Black River area in 1991 by R.J. Dillman. This resulted in the staking of several claims. He subsequently carried out geological and geophysical surveys over limited portions of the property.

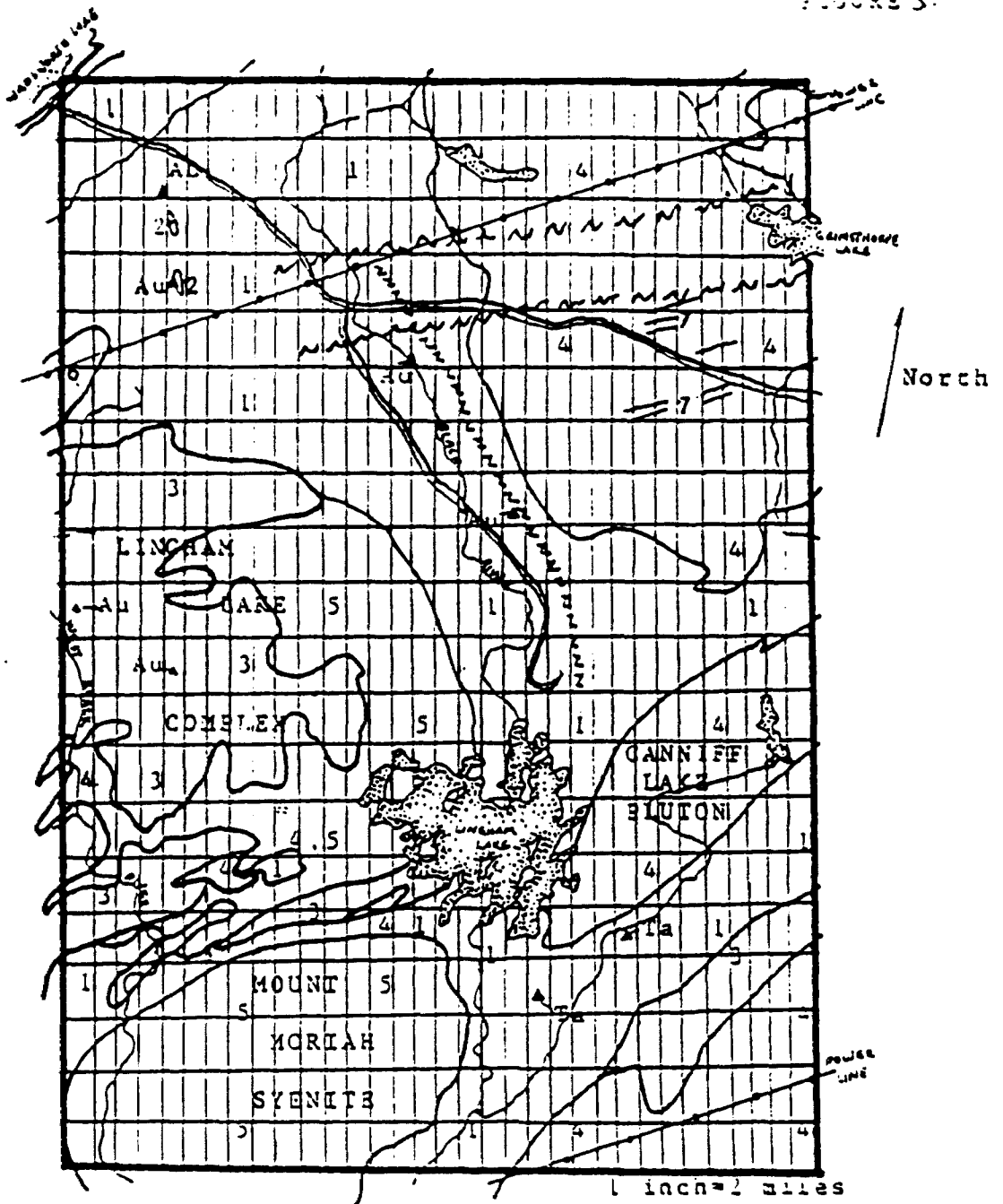
C.A. Wagg of Denbigh, Ontario staked 5 additional claims along the trend of the Black River. These claims were recorded in Dillman's name.

In the summer of 1992, the property was visited by Brian Christie, a geologist representing Homestake Minerals. Mr. Christie undertook limited prospecting, soil sampling, and geological mapping in isolated regions of the claim group. His work led to the discovery of gold in lot 20, concession 16 and what is now known as the Christie Showing. Christie also staked several claims to the north and recorded them in Dillman's name.

Further staking was conducted in the fall of 1992 by Dillman. A grid was constructed over portions of the new claims for control over geological, magnetic, and electromagnetic surveys. This work has led to the discovery of several more gold showings in the Black River area.

REGIONAL GEOLOGY

Grimsthorpe Township is in the Madoc-Bancroft region of the Grenville Structural Province. The geology of the township is summarized in Figure 3. A sequence of formations is presented in Table 1.



GEOLOGY OF GRIMSTHORPE TOWNSHIP

- | | | | |
|---|--------------------|-----|--------------------|
| 7 | diabase | ▲ | mineral occurrence |
| 6 | trondhjemite | Au | gold |
| 5 | syenite | Ta | talc |
| 4 | granite | --- | faults |
| 3 | diorite | | |
| 2 | metasediment | | |
| 1 | mafic metavolcanic | | |

(modified after Easton and Ford, 1991)

TABLE 1

TABLE OF FORMATIONS

CENOZOIC

RECENT

Swamp, lake, and stream deposits.

PLEISTOCENE

Clay, silt, sand, gravel.

UNCONFORMITY

PROTEROZOIC

INTRUSIVE ROCKS

Granitic and syenitic dikes and sills.

Granitic and syenitic rocks.

Mafic dikes and sills.

Mafic intrusive rocks.

INTRUSIVE CONTACT

METASEDIMENT AND METAVOLCANICS

Carbonate metasediments.

Clastic metasediments.

Felsic Metavolcanics.

Mafic metavolcanics.

(modified after Meen, 1942)

Grimsthorpe Township is equally divided between mafic metavolcanic rocks and igneous intrusive complexes. All rocks are of the Middle to Late Proterozoic.

Mafic metavolcanics consist of intrusive and extrusive, fine-grained basaltic and coarser-grained gabbroic flows. Between flows schists may occur which can be sedimentary derived and/or be related to volcanism.

At least five large, separate plutonic bodies intruded into the mafic metavolcanic-metasedimentary sequence. These intrusive bodies vary in composition and range from gabbro, diorite, to tonalite. The result of these intrusions caused two distinct trends of foliation to develop within the mafic metavolcanic-metasedimentary sequences. The two trends are N-NW and NE-SW and they are controlled by proximity to the plutons. In the area north-northeast of Lingham Lake a significant structure may exist that separates the two trends.

During the formation of the plutonic masses, the meta-volcanic-metasedimentary sequence was intruded by dikes of either mafic or felsic composition.

Metamorphic grade in Grimsthorpe Township ranges from upper greenschist-facies to middle amphibolite-facies (R.M. Easton, 1990). The range of metamorphism appears to be dependent on the proximity to plutons, such that, amphibolitized metamorphic aureoles exist around some of the plutonic bodies. The presence of biotite is a major accessory mineral in most rocks throughout the township.

A number of faults and shear zones have been recognized within the township (Easton, 1990). As well as these structures, airphoto observations show many topographic lineaments, some of which are certain to be fault structures. The most dominant direction of the linear features is N-NW. A second preferred orientation is E-NE. This second direction is consistent with a regional structure that cuts across the northern section of the township (Easton, 1990). From field and airphoto observations it is apparent that the E-NE lineaments may post-date N-NW lineaments. This is based on crosscutting relationships.

II. PROPERTY GEOLOGY AND MINERALIZATION

LOGISTICS

Mapping has been carried out on compassed and hip-chained lines and between lines where outcrops occur. All geological data has been compiled on three maps that cover the entire claim group at a 1:2,500 scale. These maps are appended to this report. Table 2 represents a stratigraphic section for the property. Geological mapping was conducted by R.J. Dillman.

TABLE II.

TABLE OF FORMATIONS FOR THE
BLACK RIVER PROPERTY
GRIMSTHORPE TWP. ONTARIO

CENOZOIC

Recent

swamp, lake, and stream deposits

Pleistocene

clay, silt, sand, gravel

Unconformity

PROTEROZOIC

Intrusive Sills and Dikes

gabbro

Intrusive contact

aplite dikes

mafic dikes (diabase?)

Intrusive contact

Metasedimentary and Metavolcanic Rocks

mafic volcanic intrusive/extrusive flows

Unconformity?

carbonate sediments

clastic sediments

mafic volcanic intrusive/extrusive flows

Mafic Metavolcanic Rocks

Mafic metavolcanic rocks occur over approximately 90% of the property. They are believed to be the oldest rock types. This unit is composed of: massive fine-grained flows, coarser grained gabbroic flows, and less abundant agglomerate. Fine-grained massive flows and coarser-grained gabbroic flows are equally distributed over the map area. Defining true contacts for the flows is impossible since they appear to occur as interflows of varying thickness. Fine-grained flows have a basaltic composition that is dark greyish-green on a fresh surface and grey on a weathered face.

There appears to be at least 2 or 3 ages of gabbroic rocks on the property. Interflowed gabbro with basaltic flows tend to occur west of the Black River. These dark green flows are fine to moderate-grained with anhedral textures. East of the river flows tend to be slightly coarser-grained and more massive. Grain composition is more easily recognizable and color differences between feldspar and pyroxenes is obvious. Subhedral crystals of amphiboles are present in these flows and may be a metamorphic feature. A third type of gabbro forms a sill-like body in the vicinity of the river on line 37+00N, lot 20, concession XVI (Map 1C). The gabbro is coarse-grained, and mottled white and grey with easily recognizable plagioclase and pyroxene grains. This gabbro is quite fresh on appearance and does not resemble other gabbroic flows within the map area. It is quite possibly the youngest rock type on the property.

Agglomerates have only been observed in areas west of the river. In these areas their occurrences are limited but become more frequent in the northern sections of the property. They have a massive fine-grained matrix of grey color and various sized, subangular and slightly coarser-grained clasts. Both matrix and fragments appear to be of basaltic composition. Agglomerates are found as interflows with other mafic-metavolcanic rocks.

Mafic schist units are usually found with meta-sedimentary units. They form somewhat continual formations and occur along contacts with mafic metavolcanic flows. They are dark green in color and aphanitic textured. They appear to be of basaltic composition although a chlorite-sericite unit was observed at 24+50N, 0+35E (Map 1B). Mafic schists are generally well-foliated. This fabric may be caused by shearing.

METASEDIMENTARY ROCKS

Metasedimentary rocks comprise approximately 15% of the map area. They form well-foliated, schistose units that are usually thin but continuous over the property. They are found more frequently along the Black River and in areas to the west

and occur in the most recessive topography. Members of this unit include: greywacke, argillite, graphitic schists, and quartz-feldspar-biotite schist. All these members can occur together as interbeds although greywacke and argillite are the most dominate metasedimentary type.

Characteristically, metasedimentary schists are rusted on weathered surfaces. This is primarily due to the abundance of pyrite and lesser amounts of fine-disseminated pyrrhotite. Pyrite occurs as fine-disseminations or as fracture controlled stringers. Traces of fine magnetite occur in a few localities. Sulphide content is up to 10% of the rock.

Other accessory minerals found in metasedimentary schists include: biotite, which occurs in fractures and along cleavage plains and quartz, which can be in vein form or as siliceous alteration.

For gold mineralization the most important member of the metasedimentary schist unit is quartz-feldspar-biotite schist. It is this member that hosts all the gold occurrences. These occurrences are described later in this report.

The only other metasedimentary rock type observed on the property is marble. Two small outcrops occur in lot 14, concession XIII on the north side of the swamp crossing lines 5+50S and 7+50S (Map 1A). The marble is sucrosic textured and colour bands that range from white, grey, and rusty brown.

MAFIC DIKES

On the property mafic dikes only have been observed in metasedimentary schists although they occur in volcanic flows outside the property boundary. Most frequently, the dikes occur in schists along the river. They can be up to a few metres wide. Two types of mafic dikes have been recognized.

Dark green, coarse-grained, strongly amphibolitized dikes are present in schists hosting some of the gold occurrences. These dikes trend parallel to the metasediments and they also show evidence of being sheared, broken, and offset. Some relationship may exist between gold and coarse-grained dikes since significant gold values have been found in zones of veining, shearing, and silicification occurring in schists proximal or contacting the dikes.

Fine-grained, blackish-green diabase dikes occur along the river. These dikes trend mostly parallel to schistosity but less frequently cut foliations at strong angles. They show little sign of deformation other than well-developed joints at right angles to the trend of the dikes. Cross-cutting relationships suggest that these dikes post-date coarser-grained mafic dikes.

FELSIC DIKES

Fine-grained felsic dikes called aplite dikes can be found along the entire length of the property but are restricted to the metasedimentary-metavolcanic contact along the river.

Aplite dikes consist of a core-phase of fine-grained glassy crystalline to sucrosic quartz and whitish plagioclase feldspar rimmed with very fine-grained aphanitic massive quartz and feldspar. In both phases there are small masses or droplets of quartz consuming a small percentage of the total rock. Flaky, fracture controlled biotite and clotty muscovite also occur in both phases.

White, weakly Fe-carbonated quartz veins up to 10's of centimetres wide commonly occur in these dikes.

Depending on location there are at least 2 common orientations to the dikes. In the northern and central regions of the property this trend is on an average of 150 degrees which is generally parallel to surrounding geology. In the southern regions the average trend is 90 degrees which cross-cuts surrounding geological trends. Further mapping is needed to understand the relationship between the 2 distinct trends.

Aplite dikes show little deformation and crosscut all other rock types on the property. They can be up to a few metres wide.

STRUCTURE AND METAMORPHISM

Based on foliation and contact measurements of the major rock units on the property the general trend of geology is 125 degrees. This conforms to the relative shapes of the plutonic masses on either side of volcanic-metasedimentary sequence on-which the property sits.

Varied foliation, schistosity, and joint measurements suggest that 3 structural events may have occurred on the property:

- S1.) Development of a strong foliation/schistosity between 120-130 degrees that dips SW between 40 degrees and vertical. This direction is present in all rock types. In metasediments it maybe partly due to original bedding as well as being induced by regional metamorphism from plutonism and folding.
- S2.) Development of a weak to moderate foliation of 130 to 150 degrees with low to steep dips W to SW. Superimposed on S1. type foliations. Direction observed in most rock types and might be caused by faulting and shearing.
- S3.) Foliations of 80 to 100 degrees superimposed on all other foliations. Coincides with less prominent E-W striking structural breaks. This foliation dips steeply south.

Jointing measurements suggest at least two structural phases. One set of joints ranges between 140 to 170 degrees and dips moderately to the S and SW. This set coincides with S2 type foliations and therefore may be a product of localized shearing. This range of jointing is best observed in outcrops along the river lineament and its extension into the southern claims.

A second range of jointing has been measured from 80 to 110 degrees and can dip very steeply N or S. This second set offsets the first set of joints and falls within the range of S3 type foliations. They also appear to coincide with regional E-W faulting. This second range of jointing is commonly seen in mafic metavolcanic outcrops east of the river and within mafic dikes along the river lineament. Joints of this orientation have been observed to break and offset (on a centimetre scale) quartz veins on lines 4+00S to 8+00S, lot 14, concession XII. These veins occur in a meta-sedimentary unit and have significant gold values associated with them.

In the northern section of the claim group a third set of joints was observed in a mafic metavolcanic outcrop along the Lingham Lake Road. This jointing has average orientations of 10 degrees and steep westerly dips. It is not known what is the cause of these features.

Some localized zones of shearing have been located in metasedimentary units within the claim group. The most notable areas of shearing occur along the river lineament and its southern extension in to lot 14, concession XII. These zones, although erratic in width (<3.0 m) and intensity, have been traced up to 400 m trending at low angles to/or parallel foliation. Sheared rock usually consists of quartz-feldspar-biotite schist but shearing, to a lesser degree is present in all other rock types. Shear zones in quartz-feldspar-biotite schist may have quartz veining, silicification, and mylonitization to the host rock, and mineralization consisting of arsenopyrite, pyrite, and gold. Biotite is usually present on cleavages and joints.

Other localized zones of shearing occur along mafic and felsic dike contacts but they are usually thin and discontinuous zones. Some minor shearing has been located in mafic flows but assay results have shown that they economically unimportant.

Metamorphism on the property ranges between high greenschist facies to lower-middle amphibolite facies. Biotite is present in all rock types while chlorite has only been noted in three isolated occurrences. Muscovite is present as clots in aplite dikes. Hornblende is present in most rock types and the frequency of amphibole occurrence increases from east to west across the property suggesting that metamorphism increases in this direction.

PROPERTY MINERALIZATION and ALTERATION

Prospecting has shown that at least four environments exist that return gold values upon assaying:

1. Fine to medium-grained sucrosic quartz veins with arsenopyrite and pyrite.
2. Fracture controlled glassy, grey to blue-smokey, quartz veins with arsenopyrite and pyrite.
3. Disseminated to clotty arsenopyrite and pyrite in silicified shears and vein aureoles.
4. Coarse pyrite in chlorite along contact of quartz veins.

All gold-bearing zones have been found in the quartz-feldspar-biotite schist member of the metasedimentary unit. These zones are all located within the Black River lineament and the extension of this lineament into lots 14 and 15, concessions XII and XIII.

Type 1 gold environments consist of granular, rusty quartz veins with 1-15% clotty to semi-massive arsenopyrite and <5% pyrite. A large percentage of the vein may be biotite-rich fragments of wallrock with fine tourmaline coating and scattered throughout the inclusions. These veins appear to run nearly parallel to host rock yet, no evaluation of strike lengths have been determined for any individual veins. Some veins can be >25 m in length and others up to 0.5m in width. Grab samples of this style of mineralization show up to 2.3-56 g/t gold.

Type 2 mineralization consists of glassy to granular quartz veins, grey to blue to clear in color. These veins are filling fracture systems in quartz-feldspar-biotite schist. The systems conform to the strike of the metasedimentary unit and have been traced <400m in length with possible strike lengths greater than three times that. Width of systems are narrow but variable; 1 to 40cm. In the systems quartz surrounds fragments of wallrock, but unlike type 1 veins, there is very little alteration to the fragments. Sulfides in the systems consist of <5% arsenopyrite occurring as fine smears, disseminations and clots of euhedral crystals. Pyrite totalling <5% forms disseminations to stringers in wallrock and veins and fills crosscutting joints that are <0.5cm wide. Samples of type 2 environments have returned gold values of 1.0-11.5 g/t.

Type 3 style of mineralization consists of silicified quartz-feldspar-biotite schist with some degree of mylonitization. These zones usually occur in combination with

type 2 mineralization and occur less with type 1 veins. Quartz stringers <10cm are common in type 3 zones. Distinguishing veins from alteration is sometimes difficult. Dimensions of altered zones are variable and can range up to 1.0m wide. They appear to be poddy zones along trend. Accessory minerals include <5% fine-disseminations of arsenopyrite and clotty to stringered pyrite. Occasional fine-disseminated pyrrhotite is present totalling <3%. Other minerals include fine tourmaline and flaky, fracture-controlled biotite. This type of mineralization has returned values grading from trace-21.6 g/t gold.

Type 4 mineralization is different than types 1 to 3. This mineralization consists of clotty to semi-massive pyrite and chlorite along both contacts of a quartz vein. There has been shearing along the contacts. The quartz is white and crystalline and has traces of pyrite. The mineralization occurs in quartz-feldspar-biotite schist along the river lineament (TR-3). Assays of the vein have shown up to 1.3 g/t gold and only traces in chip samples. Chlorite and pyrite collected together from both contacts have assayed 21.9 g/t gold.

Other quartz veins not previously mentioned occur in various rock types and locations over the property. So far these veins have had negative results when sampled for gold. All these veins are white and crystalline with varying widths of up to 0.5m. Many of the veins occur in metasedimentary horizons and trend parallel to the host rock. These veins can be folded, boudinaged, and carry traces of pyrite. Veins have been noted that are filling fractures in mafic metavolcanic flows. These fracture-veins prefer orientations that are at right-angles to geological trend and could be related to regional or local E-W structures. Quartz veins of widths <0.5m have been seen in aplite dikes but they are generally void of sulfides and may be fracture controlled. Stockwork systems of veining with associated Fe-carbonate have occasionally been observed in Fe-carbonate altered gabbroic flows.

Fe-carbonate altered zones in gabbroic flows are lens shaped and mostly found east of the river. They may contain quartz stockworks, traces of pyrite and magnetite. No gold has been detected with this mineralization.

Pyrite, pyrrhotite, and rarely magnetite are found in most rock types on the property, particularly schist units. Pyrite forms as stringers along cleavages and fractures, and as disseminations with fine pyrrhotite.

Galena occurs in a quartz vein in the south 1/2 of lot 14, concession XIII (TR-4).

III. DESCRIPTIONS, RESULTS, AND LOCATIONS OF ROCK SAMPLES

At the time of this report there have been 164 rock samples taken by Mr. Robert J. Dillman from the claim group. Sampling occurred during 3 separate phases of property exploration. The phases consist of a regional phase of prospecting and mapping followed by 2 separate geological mapping programs.

Sample descriptions, results, locations, and map reference for each phase of exploration are summarized in the following charts. Sample locations have been plotted on the 1:2,500 scale geological maps that are appended to this report. Samples taken during trenching are also plotted on trench plans at the scale of 1:25 and 1:50.

Regional prospecting and geological traverses conducted within the present boundaries of the claim group occurred from September 17 to October 16, 1991. In this time period, 33 rock samples were taken before any claims of the property had been staked.

After recording of the initial claims 1150894 to 1150896 inclusive, 21 samples were collected on these claims while conducting geological and geophysical surveys. These samples were taken between October 17 and October 28, 1991.

After completion of the present claim group in the spring of 1992, 110 rock samples were collected within the claim group between September 23 and November 12, 1992. These samples were taken during mapping, geophysical, and trenching programs.

54 samples have been sent to Barringer Laboratories in Mississauga, Ontario. The remaining 110 samples have been sent to Accurassy Laboratories in Kirkland Lake, Ontario. Both labs assayed the rock material using a fire assay/atomic absorption method.

The samples were processed by jaw crushing the rock and cone crushing it to -10 mesh size. From this fraction a 300 gram split was removed and crushed to -100 mesh size. For analysis, 0.30 gm was assayed for gold by fire assay/atomic absorption.

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
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*note: the following samples were collected during the regional prospecting and mapping phases of exploration (1991).

77493	1150984, S/2 L.14, C.XII 8+10S 2+10W MAP 1A	grab, 0.1 m	10	whitish quartz vein in basalt, tr. py along contacts.
77494	1150984, N/2 L.14, C.XII 5+40S, 1+74W MAP 1A	grab, float angular, 1.3x1.0x0.4 m	6780	quartz-feldspar-biotite schist with 10 cm wide q.v. cutting foliation. 1-10% As, 1% py.

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
77496	1156635, S/2 L.16, C.XIII 2+00N, 5+00W MAP 1A	grab, float angular, 0.5x0.3x0.3 m	19	quartz, Tr. cpy, Tr. py.
77499	1194942, N/2 L.21, C.XVI 43+00N, 3+50E MAP 1C	grab, 0.5 m	10	quartz vein in Fe-carb alteration in gabbro. crystalline, 5 % pyrite.
78055	1156654, S/2 L.18, C.XV 22+45N, 0+50W MAP 1B	grab, float subangular 0.4x0.4x0.3 m	80	quartz, blue-smoky fine grained, 40% coarse pyrite.
78062	1194943, N/2 L.22, C.XVII 44+00N, 0+50E MAP 1C	grab, 1.0 m	9	Fe-carbonate alteration in mafic metavolcanic flow.
78063	1194943, N/2 L.22, C.XVI 45+35N, 0+55W MAP 1C	grab, 4.0 m	8	felsic metavolcanic? weak Fe-carb., 1-2% pyrite, 1-3% magnetite.
78066	1156650, N/2 L.19, C.XV 28+75N, 1+20E MAP 1C	grab, float 0.3x0.3x0.2 m angular	5	quartz, white crystalline, Tr.-3% py.
78067	1156650, N/2 L.19, C.XV 30+42N, 0+90E MAP 1C	grab, 2.0 m	270	sheared + silicified qtz-feld-bio. schist with blue qtz stringers, 5-10% py, Tr.-5% As.
78068	1156650, N/2 L.19, C.XV 31+05N, 0+90E MAP 1C	grab, 1.5 m	836	sheared + silicified qtz-feld-bio. schist with blue quartz stringers, 5-10% py, 1-5% As.
78071	1156654, S/2 L.18, C.XV 24+90N, 2+60E MAP 1B	grab, 0.1 m	5	quartz vein in basalt, Tr. pyrite.
78072	1156654, S/2 L.18, C.XV 24+05N, 0+30E MAP 1B	grab, 0.2 m	7	quartz vein in shear in basalt, Tr.-20% pyrite.

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
78073	1150984, N/2 L.14, C.XII 7+75S, 2+27W MAP 1A	grab, 1.0 m	885	sheared + silicified qtz-feld-bio. schist with blue qtz veins <20 cm wide. 10% py.
78074	1150984, N/2 L.14, C.XII 7+87S, 2+40W MAP 1A	grab, 2.0 m	970	sheared + silicified qtz-feld-bio. schist with blue qtz veins <10 cm wide. 5-15% py, Tr.-3% As.
78076	1150985, N/2 L.13, C.XII 10+50S, 0+87W MAP 1A	grab, float angular, 0.4X0.3X0.3 m	6	quartz with <10% magnetite.
78077	1150985, N/2 L.13, C.XII 11+25S, 0+75W MAP 1A	grab, 2.5 m	14	sheared + silicified sed. schist, 1-20% py.
78078	1150985, N/2 L.13, C.XII 10+65S, 0+05E MAP 1A	grab, 1.5 m	10	sheared mafic schist Tr.-10% py.
78079	1150984, N/2 L.14, C.XII 7+87S, 2+40W MAP 1A	grab, 2.0 m	285	sheared + silicified sedimentary schist, 1-20% pyrite.
78080	1150984, N/2 L.14, C.XII 7+75S, 2+27W MAP 1A	chips, 0.4 m	518	sheared + silicified qtz-feld-bio. schist minor blue qtz veins 1-5% py in veins & wallrock.
78081	1156650, N/2 L.19, C.XV 30+42N, 0+90E MAP 1C	chips, 1.0 m	6	sheared + silicified sed. schist. 5% py
78082	1156650, N/2 L.19, C.XV 31+05N, 0+90E MAP 1C	chips, 1.0 m	530	sheared + silicified qtz-feld-bio. schist Tr.-5% As.
78083	1156650, N/2 L.19, C.XV 31+05N, 0+90E MAP 1C	chips, 1.0 m	847	blue-smoky qtz vein in sheared qtz-feld- biotite schist, 5% pyrite, 5-20% As.

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
78084	1156650, N/2 L.20, C.XV 31+00N, 1+30W MAP 1C	grab, 0.3 m	136	sheared mafic schist with 1-5% pyrite.
78085	1156650, N/2 L.20, C.XV 31+00N, 1+30W MAP 1C	chips, 0.2 m	450	sheared + silicified qtz-feld-bio. schist 1-5% py, Tr.-1% As
78086	1156650, N/2 L.20, C.XV 31+00N, 1+30W MAP 1C	chips, 0.3 m	495	sheared + silicified qtz-feld-bio. schist 1-5% py, Tr.-1% As.
78107	1156654, S/2 L.18, C.XV 24+40N, 1+18E MAP 1B	grab, float angular, : 0.5x0.3x0.3 m	37	white quartz in Fe-carbonate shear. Tr.-5% py, Tr. cpy.
78108	1156654, S/2 L.18, C.XV 24+40N, 1+16E MAP 1B	grab, float angular, 0.3x0.2x0.2 m	9	white quartz in Fe-carbonate shear. Tr.-5% py, Tr. cpy.
78109	1150986, N/2 L.15, C.XIII 6+40N, 0+25E MAP 1A	float, angular, 1.5x1.4x0.5 m	14	quartz, crystalline, white, muscovite flakes, Tr. py.
78110	1150986, N/2 L.15, C.XIII 6+47N, 0+12E MAP 1A	float, angular, 0.5x0.4x0.4 m	5	quartz, crystalline, white, muscovite flakes, gossaned.
78111	1156635, N/2 L.16, C.XIII 6+52N, B.L. MAP 1A	float, angular, 1.2x1.0x0.4 m	7	quartz, crystalline, white, muscovite flakes, Tr.-5% py.
78123	1156653, S/2 L.20, C.XVI 36+80N, 0+77E MAP 1C	float, subangular, 0.6x0.4x0.3 m	5120	quartz, fine-grained granular, qtz-feld-biotite fragments in quartz. 3-5% As, 1-5% py.
78124	1156653, S/2 L.20, C.XVI 35+85N, 1+05E MAP 1C	grab, 0.3 m	69	quartz vein in meta-sedimentary schist, white, crystalline Tr.-5% py.
78125	1156653, S/2 L.20, C.XVI 37+05N, 0+25E MAP 1C	float, angular, 0.3x0.3x0.3 m	2010	quartz similar to sample 78123, sugary 1-5% As, 1-5% py.

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
*note: the following samples were collected during the geological mapping survey on 1150984 to 1150986 (1991).				
78087	1150984, N/2 L.14, C.XII 5+99S, 1+75W MAP 1A	float, angular, 0.8x0.5x0.4 m	3200	bluish, granular qtz veins <10 cm wide in sheared + silicified qtz-feld-bio. schist 1-5% py, 1-3% As.
78088	1150984, N/2 L.14, C.XII 5+99S, 1+75W MAP 1A	float, angular, 0.6x0.5x0.3 m	3910	bluish, granular qtz veins <10 cm wide in sheared + silicified qtz-feld-bio. schist 1-5% py, 1-3% As.
78089	1150984, N/2 L.14, C.XII 7+55S, 1+25W MAP 1A	grab, 0.6 m	11	quartz vein in mafic metavolcanic flow. 1-10% fine magnetite mag anomaly?
78090	1150984, N/2 L.14, C.XII 8+90S, 2+45W MAP 1A	grab, 1 m	45	sheared mafic meta-volcanic schist, 1-5% py, Tr. As, Tr. pyrrhotite.
78091	1150984, N/2 L.14, C.XII 5+67S, 1+70W MAP 1A, TR-5	float, angular, 0.4x0.3x0.3 m	21500	sugary qtz in qtz-feld-bio. schist, Tr.-5% py, Tr.-1% As.
78092	1150984, N/2 L.14, C.XII 5+45S, 1+60W MAP 1A	float, angular, 0.5x0.4x0.3 m	29	quartz, white, crystalline, gossaned.
78093	1150984, N/2 L.14, C.XII 8+15S, 2+48W MAP 1A	grab, 2.0 m	203	sheared + silicified qtz-feld-bio. schist 1-10% py, Tr.-1% As.
78094	1150984, N/2 L.14, C.XII 8+87S, 2+97W MAP 1A	grab, 1 m	7	sheared mafic meta-volcanic schist, 1-5% py, Tr. As, Tr.-1% pyrrhotite.
78095	1150984, N/2 L.14, C.XII 8+62S, 2+75W MAP 1A	float, angular, 0.6x0.6x0.3 m	1800	sheared + silicified qtz-feld-bio. schist 1-5% py, Tr.-3% As, Tr.-1% po.
78096	1150984, N/2 L.14, C.XII 5+73S, 1+60W MAP 1A	grab, 3.0 m	2	marble, banded.

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
78101	1150984, N/2 L.14, C.XII 5+75S, 1+70W MAP 1A	chips, 0.2 m	1880	sheared + silicified qtz-feld-bio. schist and blue qtz veins <10 cm, 1-5% py, Tr.-1% As.
78102	1150984, N/2 L.14, C.XII 5+42S, 1+76W MAP 1A	float, angular, 0.8x0.5x0.3 m	1700	sheared + silicified qtz-feld-bio. schist and blue qtz veins <10 cm, 5-20% py, Tr.-3% As.
78103	1150984, N/2 L.14, C.XII 5+53S, 1+73W MAP 1A	float, angular, 0.7x0.5x0.3 m	1730	sheared + silicified qtz-feld-bio. schist and blue qtz veins <10 cm, 5-20% py, Tr.-3% As.
78104	1150984, S/2 L.14, C.XIII 3+04S, 1+29W MAP 1A	float, angular, 0.5x0.5x0.3 m	870	sheared + silicified qtz-feld-bio. schist Tr.-5% py, Tr.-1% As
78105	1150984, N/2 L.14, C.XII 5+52S, 1+75W MAP 1A	float, angular, 0.3x0.3x0.2 m	11500	sheared + silicified qtz-feld-bio. schist and blue qtz veins Tr.-5% py, Tr.-10% As.
78106	1150984, N/2 L.14, C.XII 5+62S, 1+70W MAP 1A	float, angular, 0.5x0.4x0.2 m	2410	sheared + silicified qtz-feld-bio. schist Tr.-5% py, Tr.-3% As.
78115	1150984, S/2 L.14, C.XIII 2+99S, 1+24W Map 1A	grab, 1.2 m	37	mafic + metased. schist, sheared, Tr-5% py, Tr. po.
78116	1150984, S/2 L.14, C.XIII 3+93S, 1+25W MAP 1A	float, subangular, 0.3x0.3x0.3 m	5970	quartz, granular, Tr.-5% py, Tr.-3% As.
78117	1150984, S/2 L.14, C.XIII 3+98S, 1+16W MAP 1A	float, subangular, 0.3x0.3x0.2 m	6020	quartz, granular + sheared + silicified qtz-feld-bio. schist Tr.-5% py, Tr.-3% As
78118	1150984, S/2 L.14, C.XIII 4+99S, 1+78W MAP 1A	float, subangular, 0.4x0.3x0.2 m	124	QV <10 cm in sheared + silicified qtz-feld-bio. schist Tr.-1% As

SAMPLE No.	CLAIM No., LOT/CONC., GRID COOR., MAP REFER.	SAMPLE TYPE/ WIDTH (metres)	GOLD ppb	DESCRIPTION
78119	1150984, S/2 L.14, C.XIII 5+12S, 1+75W MAP 1A	grab, 1.0 m	26	sheared + silicified metasedimentary schist, Tr.-5% py

*note: the following samples were collected during the 1992 geological and geophysical surveys on the remaining claim group.

69551	1150986, S/2 L 15,C XIII 204N,008W MAP 1A	float in swamp, grab	339	quartz-feldspar-biotite schist, qtz stringers, < 10% py, < 3% As
69552	1150986, S/2 L 15,C XIII 204N,009W MAP 1A	float in swamp, grab	117	quartz-feldspar-biotite schist, qtz stringers, < 5% py, < 5% As
69553	1150986, S/2 L 15,C XIII 203N,009W MAP 1A	float in swamp, grab	314	quartz-feldspar-biotite schist, qtz stringers, Tr. py, Tr. As
69554	1150986, S/2 L 15,C XIII 280N,011E MAP 1A,	float in road, grab	1332	sheared+silica, qtz-feld-bio sch. qtz stringers, < 5% py, < 1% As
69555	1150986, S/2 L 15,C XIII, 295N, 020E MAP 1A	rep., 0.70 m	9	white quartz vein in aplite dike, Tr. py
69556	1150986, S/2 L 15,C XIII 312N, 008E MAP 1A	rubble crop grab	77	mafic metavol.+ metased. schists, minor qtz veins < 1 cm wide, <3% py Tr. As

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69557	1156636, N/2 L 17,C XIV, 1750N, 008W MAP 1B	float, angular .4x.2x.1 m	<5	quartz, rusty fractures, Tr. py
69558	1156654, S/2 L 18,C XV 2212N, 184E MAP 1B	float, angular	<5	quartz on mafic outcrop, Tr.
69559	1156654, S/2 L 18,C XV 2206N, 189E MAP 1B	grab 0.3 m,	6	qtz stringers in mafic+sed schists 1% hematite, Tr. py
69560	1156654, S/2 L 18,C XV 2200N, 192E MAP 1B	rep., 1.0 m	5	quartz-feldspar- biotite schist < 5% py, Tr. As?
69561	1156654, S/2 L 18,C XV 2280N, 175E MAP 1B, TR-3	float in animal hole	3505	quartz, many pieces, chlorite + py along contacts
69562	1156653, S/2 L 20,C XVI 3487N, 011W MAP 1C	float, angular	927	siliceous + sheared qtz-feld- bio schist, 15cm quartz vein, <5% As, <5% py
69563	1156653, S/2 L 20,C XVI 3530N, 004W MAP 1C	rubble crop grab, 0.2 m	67	argillite with 10 cm qtz vein 1% py + po
69564	1156653, S/2 L 20,C XVI 3680N, 077E MAP 1C, TR-1	float on metased o/c, angular, rep.	56,832	granular quartz, disseminated to semi-massive, clotty As <30%, fragments of wallrock in vein.
69565	1156653, S/2 L 20,C XV 3467N, 010W MAP 1C	float on metased o/c angular, many peices	682	siliceous + sheared qtz-feld- bio. schist with gray-blue qtz stringers < 5cm wide, 10% As

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69566	1156653, S/2 L.20, C.XV, 3487N, 011W MAP 1C	float on metased o/c, angular, many peices	680	siliceous + sheared qtz-feld- bio. schist with qtz stringers <5cm wide, 5% As, 45% py
69567	1156654, S/2 L.18, C.XV, 2298N, 049E MAP 1B	grab, 0.5 m	33	qtz--feld-bio. schist, weak silicification + qtz veins <1 cm wide, Tr.-10% py
69568	1156654, S/2 L.18, C.XV 2292N, 047E MAP 1B	grab, 0.3 m	13	silicified qtz- feld-bio schist + weak quartz stringers, 5-10% py
69569	1156653, S/2 L.20, C.XVI 3680N, 077E MAP 1C, TR-1	float, under 69564, rep.	3327	granular quartz, medium grained, fragments of wallrock in qtz, 5-10% As dissem. to semi-massive.
69570	1156653, S/2 L.20, C.XVI 3680N, 077E MAP 1C, TR-1	float, 0.3* 0.3*0.3 m, angular	3535	granular quartz with fragments of metasediments, biotite along fractures, 5-20% As dissem. to semi-massive
69571	1156653, S/2 L.20, C.XVI 3690N, 079E MAP 1C	float, 0.3* 0.2*0.2 m, angular	7	rusty quartz, muscovite clots, Tr.-10% py
69572	1156653, S/2 L.20, C.XVI 3665N, 075E MAP 1C, TR-1	rep., 0.5 m	19	qtz-feld-bio. + graphitic schist + graywacke, <10% py, <3% po
69573	1156653, S/2 L.20, C.XVI 3689N, 095E MAP 1C	grab, 0.5 m	9	qtz-feld-bio. schist, <5% py + po

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69574	1156653, S/2 L.20, C.XVI 3635N, 076E MAP 1C, TR-1	float, 0.4* 0.2*0.1 m, angular	3	qtz--feld--bio. schist, <5% py + po
69575	1156653, S/2 L.20, C.XVI 3673N, 076E MAP 1C, TR-1	float, 0.4* 0.3*0.2 m, angular	10	qtz-feld--bio. schist, <5% py + po
69601	1156635, N/2 L.16, C.XIII 653N, 035W MAP 1A	rubble crop, 0.45 m., grab	<5	quartz vein in Fe-carb altered gabbro, rusty fractures, Tr. py
69602	1150984, S/2 L.14, C.XIII 380S, 131W MAP 1A, TR-4	trench debris, rep.	534	qtz-feld-bio. schist, mod. silicification + qtz stringers, <3% py, <5% As, <2% po
69603	1150984, S/2 L.14, C.XIII 380S, 131W MAP 1A, TR-4	trench debris, rep.	20,218	granular quartz, medium grained, clotty to semi- massive As <10%, <3% py
69604	1150984 S/2 L.14, C.XIII 401S, 115W MAP 1A, TR-4	trench debris, rep.	2208	granular quartz, medium grained, disseminated to clotty As <3%, <3% py, Tr. po
69605	1150984, S/2 L.14, C.XIII 398S, 115W MAP 1A, TR-4	trench debris, rep.	2267	quartz, similar to 69604, <15% As <5% py
69606	1156653, S/2 L.20, C.XVI 3640N, 075E MAP 1C	float, 1.0* 0.4*0.3 m, angular	5	quartz-feld-bio. + greywacke, weak shearing, <1% py, <2% po
69607	1156636, N/2 L.17, C.XIV 1460N, 025W MAP 1B	float, 2 pieces on gabbro, grab	<5	mafic metavol. schist, weakly chloritized, <1% py, <1% po

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69608	1156636, N/2 L.17, C.XIV 8L., 1548N MAP 1B	grab, 2.0 m	45	gabbro, moderate Fe-carb altered, 3% biotite, <1% py, 1% magnetite
69609	1156650, N/2 L.19, C.XV 3000N, 075E MAP 1C	rep., 0.4 m	94	qtz-feld-bio.+ mafic metavol. schists + metased schists, chert? biotite along fractures, <5% py
69610	1156650, N/2 L.19, C.XV 3001N, 076E MAP 1C	rep., 0.4 m "	117	siliceous metased sheared, <5% bio. along fractures, <3% py, <2% po
69611	1156650, N/2 L.19, C.XV 3003N, 080E MAP 1C	grab/rep., 1.4 m	582	qtz-feld-bio. schist, sheared, siliceous, some greyish quartz stringers <2 cm wide with Tr. As, <15% py in schists
69612	1156650, N/2 L.19, C.XV 3003N, 080E MAP 1C	float, large, angular, grab	9	white to rusty quartz on schist o/c. Tr. py
69613	1156650, N/2 L.19, C.XVI 3175N, 090E MAP 1C	grab, 0.3 m	18	quartz-feldspar-biotite schist, weak shearing, <3% py, Tr. As
69614	1156650, N/2 L.20, C.XV 3102N, 135W MAP 1C	chip, 0.35m	28	mafic metavol. clasts in a quartz-muscovite matrix, unit 0.35 metres wide, Tr. py + po, Tr. As
69615	1156650, N/2 L.20, C.XV 3102N, 136W MAP 1C	chip, 0.4 m	39	silicified unit above conglom., qtz nodules <1cm dia., <10% py, <1% po, Tr. As?

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69616	1156650, N/2 L.20, C.XV 3225N, 100W MAP 1C	float, 0.5* 0.4*0.3 m, angular, rep.	8	white quartz, crystalline, rusty fractures, Tr. py
69617	1156650, N/2 L.20, C.XV 3220N, 100W MAP 1C	grab, 10 m	<5	mafic metavol. + metased. schists, Tr-10% py dissem. to stringered, < 2% fine po
69618	1156650, N/2 L.20, C.XV 3190N, 100W MAP 1C	float, 0.4* 0.4*0.2 m, angular	<5	quartz vein in schist, white + rust, crystalline 5-10% py along contact.
69619	1150985, N/2 L.13, C.XII 1125S, 260W MAP 1A	float, 0.4* 0.2*0.2 m, angular	<5	basalt, <3% py in fractures, <1% po near conductor
69620	1150984, N/2 L.14, C.XII 400S, 118W MAP 1A, TR-4	chip, 0.6 m	480	qtz-feld-bio. schist, mod. silicification, 5-10% dissem. to stringered py, Tr. As, Tr. po
69621	1150984, N/2 L.14, C.XII 400S, 117W MAP 1A, TR-4	chip, 0.3 m	986	qtz-feld-bio. schist, quartz stringers <1cm wide, <5% qtz, 5-10% py, Tr.-5% As associated with quartz
69622	1150984, N/2 L.14, C.XII 400S, 117W MAP 1A, TR-4	chip, 0.25m	3386	sucrosic quartz vein, 5-10% As clots, Tr.-5% py, <2% galena, Tr. po
69623	1150984, N/2 L.14, C.XII 400S, 116W MAP 1A, TR-4	chip, 0.5 m	1579	sugary qtz veins <5cm wide in qtz- feld-bio. schist, <30% qtz, Tr.-10% As. <5% py, <2% po. Tr. galena.

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69624	1130984, N/2 L.14, C.XII 400S, 116W MAP 1A, TR-4	chip, 0.5 m	123	qtz-feld-bio. schist, weak silicification + shearing, minor qtz stringers <1cm wide, <5% py <1% As, <3% po
69625	1150984, N/2 L.14, C.XII 400S, 115W MAP 1A, TR-4	chip, 1.0 m	35	qtz-feld-bio. schist, <3% py, <3% po, Tr. As
69626	1194973, S/2 L.16, C.XIV 810N, 150W MAP 1A	float, rubble crop grab	241	qtz-feld-bio. schist, well- zoned biotite <5% <3% py, 1% po Tr. As
69627	1194973, S/2 L.16, C.XIV 810N, 151W MAP 1A	rubble crop grab	<5	qtz--feld-bio. schist + wacke, white qtz veins <2cm wide, 2% py, 1% po in wallrock
69628	1194973, S/2 L.16, C.XIV 920N, 040E MAP 1A	grab, 2 m	94	qtz-feld-bio. schist + wacke, Tr.-3% py, Tr.-1% po
69629	1150986, N/2 L.15, C.XIII 220N, 010E MAP 1A	float, on road	573	qtz-feld-bio. schist, weak silicification, <5% py, <3% As
69630	1156654, S/2 L.18, C.XV 2392N, 120E MAP 1B	rep., 0.3 m	<5	qtz-feld-bio. schist contacting Fe-carb altered gabbro, 5% py, 3% po
69631	1156654, S/2 L.18, C.XV 2389N, 122E MAP 1B	float, angular fragments, rep.	15	quartz + Fe-carb, on Fe-carb zone in mafic metavol. rusty.

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69632	1156654, S/2 L.18, C.XV 2387N, 217E MAP 1B	grab, 1.0 m	<5	gabbro, chlorite + Fe-carb altered, Fe-carb veinlets <1cm wide random orientation, Tr. py
69633	1156654, S/2 L.18, C.XV 2200N, 175E MAP 1B	grab, 3.0 m	<5	qtz-feld-bio. schist + gabbro, Tr.-5% dissemin. py + po
69634	1156654, S/2 L.18, C.XV 2230N, 175E MAP 1B, TR-3	float in animal hole, rep., large block	1301	crystalline qtz, muscovite along fractures, rusty, Tr. py
69635	1156654, S/2 L.18, C.XV 2290N, 200E MAP 1B	grab, 0.3 m float	<5	quartz vein of undetermined size in Fe-carb altered gabbro Tr. tourmaline Tr. py
69636	1156653, S/2 L.20, C.XVI 3488N, 008W MAP 1C, TR-2	float, 0.4* 0.3*0.3 m, rep.	795	strong silicification, qtz stringers in qtz-feld-bio. schist?, <10% euhedral As. <3% py
69637	1156653, S/2 L.20, C.XVI 3680N, 080E MAP 1C, TR-1	rep., 0.35 m	9	quartz vein in qtz-feld-bio. schist, vein is boudinaged, Tr. py
69638	1156653, S/2 L.20, C.XVI 3680N, 080E MAP 1C, TR-1	rep., 1.0 m	5	qtz-feld-bio. schist + qtz stringers < 1 cm wide, <5% qtz, weak silicified aureole around stringers, <10% py, <2% po

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69639	1156653, S/2 L.20, C.XVI, 3683N, 080E MAP 1C, TR-1	float, 0.4* 0.3*0.3 m, subangular rep.	2832	granular quartz, similar to qtz in trench 3 m south, 10-15% As clotty to semi-massive.
69640	1156653, S/2 L.20, C.XVI 3700N, 075E MAP 1C	rep., 1.0 m	16	boudinaged and contorted white, crystalline qtz veins, 4 veins <10cm wide/1.0 m of qtz-feld-bio schist, <5% py
69641	1156653, S/2 L.20, C.XVI 3670N, 067E MAP 1C, TR-1	float, rep., angular, 0.2*0.2*0.1m 5 pieces	710	blue-smokey qtz with fragments of qtz-feld-biotite schist, 2% As, 1% py, could not be located in trench
69642	1156653, S/2 L.20, C.XVI 3670N, 064E MAP 1C, TR-1	float, rep., angular, 0.4*0.3*0.3m	13	white, sugary to crystalline qtz, sourced from vein in trench, Tr. py
69643	1156653, S/2 L.20, C.XVI 3670N, 070E MAP 1C, TR-1	grab, 4.0 m	102	qtz-feld-bio. schist+greywacke, minor sugary qtz stringers < 2 cm wide, minor thin silicified zones, Tr.-5% py, <2% po
69644	1156653, S/2 L.20, C.XVI 3620N, 070E MAP 1C	float, 0.8* 0.4*0.3, angular, grab, 3 pieces	<5	white qtz with blue granular qtz clots, rusty fractures, clotty muscovite, Tr. py
69645	1156650, N/2 L.20, C.XV 3405N, 055W MAP 1C	float, many various sized pieces	136	granular-rusty qtz stringers in metased. schist, stringers < 10cm wide, Tr.-3% py + po

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69646	1150984, S/2 L.14, C.XIII 380S, 127W MAP 1A, TR-4	chip, 0.6 m	41	qtz-feld--bio. schist, weak silicification, 1-5% py, 2% po, Tr. As
69647	1150984, S/2 L.14, C.XIII 380S, 127W MAP 1A, TR-4	chip, 0.4 m	3119	qtz-feld-biotite schist, moderate silicification + shearing, minor qtz stringers <1cm wide that parallel folia., 1-5% py, Tr.-3% As
69648	1150984, S/2 L.14, C.XIII 380S, 127W MAP 1A, TR-4	chip, 0.3 m	5525	granular quartz vein 15 cm wide + silicified aureole, <5% As in clots and disseminations
69649	1150984, S/2 L.14, C.XIII 384S, 123W MAP 1A, TR-4	float, rep., 0.4*0.3*0.3m, 3 pieces	4426	granular quartz similar to qtz found in trenches, <5% As, 2% py
69650	1150984, S/2 L.14, C.XIII 384S, 122W MAP 1C, TR-4	chip, 1.2 m	37	moderately silicified qtz- feld-bio. schist, minor qtz veins < 1cm wide, 2-5% py, Tr.-2% As, Tr. po, Tr. tourmaline
69651	1150984, S/2 L.14, C.XIII 550S, 174W MAP 1A, TR-3	chip, 1.4 m	164	qtz-feld-bio. + minor greywacke beds, weak shear plains that parallel foli.. qtz stringers <1cm wide in shears, <5% py

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69652	1150984, S/2 L.14, C.XIII 551S, 175S MAP 1A, TR-5	float in swamp, angular	1881	qtz-feld-bio. schist with qtz stringer 10 cm wide, moderate silicification to wallrock, 5-10% As, Tr.-3% py
69653	1150984, S/2 L.14, C.XIII 570S, 173W MAP 1A, TR-5	chips, 0.2 m	527	10 cm qtz vein + siliceous qtz-feld-bio. schist, <5% As, 1-3% py, 50% qtz
69654	1150984, S/2 L.14, C.XIII 570S, 172W MAP 1A, TR-5	chip, ~1.2 m	72	qtz-feld-bio. schist, minor qtz stringers with Tr As, Tr.-5% py in wallrock
69655	1156653, S/2 L.20, C.XVI 3740N, 175E MAP 1C	rubble crop	7	mafic metavol. + metased. schist with 25cm quartz vein, white crystalline, Tr. py in contacts.
69656	1156653, S/2 L.20, C.XVI 3792N, 102E MAP 1C	float, +8 pieces, large <1 m, subangular	3059	blue-smokey qtz stringers <10 cm in qtz-feld-bio. schist, sheared, <5% disseminated to stringered py, 1-10% As.
69657	1156653, S/2 L.20, C.XVI 3787N, 105E MAP 1C	large float, angular	672	qtz vein <15cm + siliceous qtz-feld-bio. schist, semi-massive As in vein + dissem. in wallrock, 70% qtz, 15-20% As.
69658	1156653, S/2 L.20, C.XVI 3795N, 103E MAP 1C	float, 0.5*0.5*0.2 m, angular	2162	blue-smokey qtz in qtz-feld-bio schist, frag. of wallrock in vein, 5% As, 3% py

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69659	1156654, S/2 L.18, C.XV 2280N, 175E MAP 1B, TR-3	rep., 0.15 m rubble crop	21,911	sheared contacts on both sides of quartz vein, shear filled with chlorite + semi-massive py, 60/40 chl/py.
69660	1156654, S/2 L.18, C.XV 2280N, 175E MAP 1B, TR-3	chip, 0.25 m rubble crop	16	gossaned, vuggy quartz, chlorite blebs 5%, Tr. py vein is loose in bedrock.
69661	1156650, N/2 L.19, C.XV 3205N, 090E MAP 1C	rep., 0.4 m	553	<10 cm qtz vein + silicified qtz-feld-bio. schist, fragments of wall rock in vein, Tr-5% As, Tr.-5% py, mafic dike
69662	1156650, N/2 L.19, C.XV 3210N, 088E MAP 1C	rep., 0.2 m	6	white quartz with rusty fractures, boudinaged in metasediments, Tr. py
69663	1156650, N/2 L.19, C.XV 3070N, 081E MAP 1C	chip, 0.25 cm	1090	sheared and siliceous qtz-feld-bio. schist contacting with aplite dike, 3% As, 5% py.
69664	1194942, N/2 L.21, C.XVI 3950N, 175E MAP 1C	float, 0.5* 0.4*0.3 m, subangular	1644	siliceous + sheared qtz-feld-bio. schist, weak chlorite, <3% As, 5% py
69665	1156653, S/2 L.20, C.XVI 3680N, 065E MAP 1C, TR-1	chip, 0.4	41	sheared and brecciated qtz-feld-bio. schist contacting aplite dike, weak-mod. mylonitization, <10% fine py.

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REFER.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69666	1156653, S/2 L.20, C.XVI 3660N, 064E MAP 1C, TR-1	chip, 0.2 m	65	qtz stringers along dike contact <2cm wide, Tr.-5% py
69667	1156653, S/2 L.20, C.XVI 3660N, 066E MAP 1C, TR-1	chip, 0.9 m	18	qtz-feld-bio. schist, weak shearing, minor qtz stringers <2cm wide, Tr.-10% py
69668	1156653, S/2 L.20, C.XVI 3660N, 066E MAP 1C, TR-1	chip, 0.5 m "	10	white qtz vein, crystalline, boudinaged, Tr. py in vein. Tr.-3% py in contact.
69669	1156653, S/2 L.20, C.XVI 3660N, 064E MAP 1C, TR-1	numerous fist-sized pieces found during trenching	724	qtz+qtz-feld-bio. schist, similar to 69641, not located in o/c.
69670	1156653, S/2 L.20, C.XVI 3793N, 097E MAP 1C	float, 0.4* 0.2*0.2 m, subangular	1095	metased+qtz-feld biotite schist with qtz veins <5cm wide, chl. clots, <10% As.
69671	1156653, S/2 L.20, C.XVI 3793N, 097E MAP 1C	float, 0.2* 0.15*0.15 m, subangular	2347	mostly sucrosic quartz, 5-10% clotty As, 1-5% py
69672	1156654, S/2 L.18, C.XV 2450N, 037E MAP 1B	rep., 2.0	5	chlorite-sericite schist with qtz veins < 5cm cutting schist, weak Fe-carb, Tr. py
69673	1156650, N/2 L.19, C.XVI 2930N, 100W MAP 1C	float, many various sized pieces	7	quartz on metased o/c, white to grey, Tr. py

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REF.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69674	1156653, S/2 L.20, C.XVI 3365N, 100E MAP 1C	rep., 0.3 m	340	qtz-feld-bio. with qtz filling fractures, dissem to stringered py 1-5%, 1-5% As in qtz.
69675	1156653, S/2 L.20, C.XVI 3350N, 105E MAP 1C	rep., 0.35 m	1097	qtz-feld-bio. schist fragments in qtz vein <0.15m wide + silicified wall- rock, 5-10% py, Tr.-3% As in qtz.
69676	1156653, S/2 L.20, C.XVI 3473N, 005W MAP 1C, TR-2	chip, 1.3 m	188	qtz-feld-bio. schist + chlorite filled shears <15cm wide, qtz stringers <5cm in sheared areas, Tr. As in shears, 1-3% py + po.
69677	1156653, S/2 L.20, C.XVI 3473N, 006W MAP 1C, TR-2	chip, 0.6 m	1225	sheared and chloritized meta- sed., minor qtz stringers <5cm wide, 2% As, 5% py + po
69678	1156653, S/2 L.20, C.XVI 3473N, 007W MAP 1C, TR-2	chip, 1.6 m	361	qtz-feld-bio. schist, minor chloritized shear plains <3cm wide, Tr. As, 3% py+po.
69679	1156653, S/2 L.20, C.XVI 3473N, 009W MAP 1C, TR-2	chip, 0.8 m	1263	sheared+siliceous +brecciated meta- sed. blue-smokey qtz stringers <10% wide, 5% clotty to dissem. As, 5% py+po.

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REF.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
69680	1156653, S/2 L.20, C.XVI 3473N, 011W MAP 1C,	chips, 1.4 m	58	mafic + sediment schists, minor thin shear plains with chlorite, Tr. As, 2% py+po.
69681	1156653, S/2 L.20, C.XVI 3680N, 078E MAP 1C, TR-1	chip, 1.1 m	85	qtz-feld-bio.+ minor graywacke. stringered+clotty py <3%, 1% po. Tr. As.
69682	1156653, S/2 L.20, C.XVI 3680N, 077E MAP 1C, TR-1	chip, 0.3 m :	4634	granular quartz vein with fragments of metased, vein occurs along aplite dike/sed. contact, <20% clotty-dissem. As <5% py.
69683	1156653, S/2 L.20, C.XVI 3680N, 177E MAP 1C, TR-1	chip, 0.25m	4446	same as above, samples of each half of vein.
69684	1156653, S/2 L.20, C.XVI 3679N, 176E MAP 1C, TR-1	chip, 0.25 m	20	aplite dike. biotite filled fractures, Tr. py
69685	1156653, S/2 L.20, C.XVI 3681N, 177E MAP 1C, TR-1	chip, 0.3 m	2782	qtz vein, <20% As clotty-dissem.

* note: the following samples were collected by B.J. Christie (1992) on a property examination for Homestake Minerals.

5512	1156653, S/2 L.20, C.XVI 3730N, 080E MAP 1C	float, possibly local	5	sugary aplite, minor qtz veins, tr. py
5513	1156653, S/2 L.20, C.XVI 3730N, 080E MAP 1C	float, possibly local	<5	gray, sugary aplite, 10% glassy quartz veins, tr. py in wallrock veins

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REF.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
5514	1156653, S/2 L.20, C.XVI 3730N, 080E MAP 1C	float, possibly local	8	Fe-carb altered mafic metavol., <1% clotty to stringered py.
5515	1156653, S/2 L.20, C.XVI 3740N, 085E MAP 1C	float, possibly local	45	mafic metavol., moderate Fe-carb alteration, tr.-1% disseminated py.
5516	1156653, S/2 L.20, C.XVI 3660N, 075E MAP 1C, TR-1	rubble crop, grab	11	qtz-feld-biotite schist, graphitic beds, <1% py
5517	1156653, S/2 L.20, C.XVI 3675N, 075E MAP 1C, TR-1	rubble crop, grab	16	aplite, gossaned fractures, tr.-1% py.
5518	1156653, S/2 L.20, C.XVI 3680N, 077E MAP 1C, TR-1	float, possibly local	14,921	sucrosic quartz vein, 2-3% As, <1% py
5519	1156653, S/2 L.20, C.XVI 3535N, 080E MAP 1C	rubble crop, grab	54	graphitic schist, <3% stringered py that parallel and cut foliation.
5520	1156653, S/2 L.20, C.XVI 3530N, 080E MAP 1C	grab of o/c under water	114	qtz vein of unknown extent, 5% calcite, 5% py 1-2% marcasite?
5521	1156653, S/2 L.20, C.XVI 3450N, BASELINE MAP 1C	grab	14	qtz-feld-biotite schist, dissem. py on foliation.
5522	1156653, S/2 L.20, C.XVI 3480N, 010W MAP 1C, TR-2	rubble crop, grab	1921	qtz-feld-biotite schist, 5% sugary qtz veins, 1-2% As, <1% py, arsenopyrite may be fracture or vein related.

SAMPLE No.	CLAIM No. LOT/CONC. GRID COOR. MAP REF.	SAMPLE TYPE/ WIDTH	GOLD ppm	DESCRIPTION
5523	1156653, S/2 L.20, C.XVI 3500N, 050E MAP 1C	float, possibly local	15	fine-grained felsic intrusive, <1% clotty py
5524	1156653, S/2 L.20, C.XVI 3475N, 012E MAP 1C, TR-2	grab, trench?	506	qtz-feld-biotite schist, <1% As+py arsenopyrite may be fracture controlled.
5525	1156653, S/2 L.20, C.XVI 3512N, BASELINE MAP 1C	rubble crop, grab ..	9	graphitic schist, minor qtz veins, 10% biotite, 1% py+po, tr. As?
5526	1156650, N/2 L.20, C.XV 3190N, 100E MAP 1C	rubble crop, grab	70	cherty/siliceous metasediment, 1-2% clotty py+ fine disseminated po. 5% biotite.
5527	1156650, N/2 L.20, C.XV 3210N, 100E MAP 1C	grab	1201	qtz-feld-biotite schist, moderate Ca-carb alter., fracture control? 2-3% As

IV. SUMMARY OF GOLD SHOWINGS and TRENCHING

HERON POND SOUTH

L. 14, CONC. XII, N/2
L. 14, CONC. XIII, S/2
S01150984
3+80S, 1+27W to 8+70S, 2+75W
MAPS: 1A, TR-4, TR-5

Fracture system with 1-15cm wide grey to blue-smokey quartz veins, minor silicified and sheared sections in quartz-feldspar-biotite schist and minor greywacke, argillite and graphitic schists. Some sucrosic, type 1 quartz veins present <25cm wide. Mafic dikes trend parallel to schists. Schist unit trends N-NW, dips W-SW at 60-70 degrees. Unit may be offset by near E-W trending structures. Gold-bearing zone may dip more steeply. Maximum width of mineralization observed is 1.55m. Traced >500m by outcrop and float although exposures interrupted by swamp. Best chip sample is 3.4 g/t Au/0.25m. Best grab sample is 21.6 g/t Au taken from float. Gold is associated with arsenopyrite in veins, shearing, and silicified sections of schists.

HERON POND NORTH

LOT 15, CONC. XIII, S/2
S01150896
2+00N, 0+18W to 2+80N, 0+20E
MAP 1A

Quartz filled fractures in metasedimentary schists. Mineralization tends to occur in the quartz-feldspar-biotite schist member. Traced 60m by float. Much of the float is located below waterline of swamp. Best assay is 1.3 g/t Au in grab of float with 1% arsenopyrite, <5% pyrite. No dimensions determined for zone. Could be extension of the Heron Pond South.

GOPHER SHOWING

LOT 18, CONC. XV, S/2
S01156654
22+80N, 1+75E
MAPS 1B, TR-3

Sheared contacts of quartz vein in quartz-feldspar-biotite schist? Chlorite + <30% semi-massive pyrite in contacts. Looks very different than any other gold showings on property. Note: all rock is loose in trench (rubble crop?). Best chip sample showed 16 ppb Au/0.25m. Sample only consisted of quartz with <1% pyrite. Best grab of quartz with <2% pyrite showed 3.5 g/t Au. A grab sample which included both contacts showed 21.9 g/t Au. Width of combined contacts is 15cm.

BLACK RIVER SOUTH
LOT 19, CONC. XV, N/2
LOT 20, CONC. XVI, S/2
S01156653
30+00N, 0+75E to 33+50N, 0+80E
MAP 1C

Grey to blue-smokey, fracture-filling quartz veins and sheared+silicified quartz-feldspar-biotite schist. Traced >350m by outcrop. Best exposures lie under river. Widths variable. Maximum mineralized width noted is <2.0m with average range <0.5m. Maximum width of vein noted is <1.0m with best vein(s) noted along contacts of mafic dike(s). Most veining is <20cm. Shearing+silicification noted in one location along contact with aplite dike. Schist unit strikes NW and dips between 42-70 degrees SW. Fracturing and veining appears to cut schistosity at low angles and dip SW at slightly steeper angles. Dikes may post-date mineralization. Best chip sample of quartz showed 847 ppb Au/1.0m (Dillman, 1991). Best grab sample of quartz+quartz-feldspar-biotite schist showed 1201 ppb Au (Christie, 1992) and a similar sample along strike showed 1097 ppb Au representing 0.35m. Gold is associated with arsenopyrite in veining and alteration.

CHRISTIE SHOWING
LOT 20, CONC. XVI, S/2
S01156653
34+67N, 0+10W to 34+87N, 0+11W
MAPS 1C, TR-2

Metasedimentary schists and minor mafic metavolcanics with parallel sheared and silicified fractures and beds. Zones may include grey to blue-smokey quartz stringers <12cm wide maximum with <5% arsenopyrite, <3% pyrite, and traces of pyrrhotite in wallrock. Schists range in strike between N to NW and dip between 30-76 degrees W to SW. Shearing has occurred along thin fractures, bed contacts, and within beds. There is weak chlorite alteration to shear zones. Shears trend at small angles to or parallel the direction of schistosity and dip SW between 32 degrees and vertical. Mineralization has been traced 20m by outcrop and float. Best chip samples have shown 1263 ppb Au/0.8m and 1225 ppb Au/0.6m, the second sample taken of a parallel shear.

BLACK RIVER NORTH
LOT 20, CONC. XVI, S/2
S01156653
36+80N, 0+77E
MAPS 1C, TR-1

Sugary quartz vein occurs along the contact of quartz-feldspar-biotite schist and an aplite dike. Clotty to semi-massive arsenopyrite occur in the vein. Quartz contains angular fragments of schist. Biotite + muscovite in fragments and fine

tourmaline may coat some of the fragments. Quartz/fragment ratio 70/30. The vein strikes N-NW. The vein-sediment contact dips at 60 degrees SW. The vein-dike contact dips at 48 degrees SW. The vein may pinch and swell; maximum width exposed is 0.55m, minimum width is 0.25m. The vein has been traced 5m by trenching and float. Dike may be cutting vein. The schist unit is mineralized with <3% fine-disseminated pyrite and pyrrhotite but shows no gold. Two chip samples over 0.55m of the vein returned 4.6 g/t Au/0.3m and 4.4 g/t Au/0.25m. The best grab sample showed 56.8 g/t Au.

A second trench has been dug 25 metres to SE of the vein. The trench covers the dike-metasedimentary contact. Although shearing and silicification and quartz veining has occurred along the contact no vein or mineralization was observed that is similar to that in the trench at 36+80N, 0+77E. Before and during trenching 10-15 fist-sized pieces of quartz and meta-sedimentary material were found that contained <3% arsenopyrite. Two samples of this material returned values of 710 ppb Au and 724 ppb Au. This float may have been relocated by glacial activities suggesting that the source would be located towards the north.

BLACK RIVER NORTH BOULDER OCCURRENCE
LOT 20, CONC. XVI, S/2
S01156653
37+87N, 105E to 37+95N, 103E
MAP 1C

Prospecting activities have located an area where approximately 10 various sized boulders of quartz-feldspar-biotite schist occur on the surface of glacial moraine tills. The boulders are angular and up to 1.0*0.5*0.3 m in dimension. They contain sugary and grey to blue-smokey quartz veins (type 1 and 2 veins) well mineralized with arsenopyrite. There is some degree of silicification and shearing to the wallrock and it is well mineralized with arsenopyrite and pyrite. 5 samples taken of some of the float ranged between 672 ppb to 3059 ppb gold. A trench was attempted over the float but it was abandoned because of water seepage. This float has probably been relocated by glacial movements and may have been sourced from an area close-by and to the north. Another piece of float also occurring in glacial till was found at 39+50N, 1+75E. This float ran 1644 ppb Au and is similar to above mention float in mineralization and alteration. These float occurrences suggest that a gold-bearing structure may occur in the area of or under the river.

CONCLUSIONS AND RECOMMENDATIONS

Geological and geophysical surveys are responsible for the discovery of 7 areas where gold mineralization occurrences along a 5 km distance of the lineament hosting the Black River and the extension of this lineament into the southern regions of the claim block. Contrasting foliation and schistosity measurements, airborne magnetics, and shearing within outcrops along the river suggest that the lineament represents a significant NW trending fault structure.

Gold found along this trend is associated with arsenopyrite and pyrite in quartz veins, silicified zones, and shearing of metasedimentary schists. At all the showings the host rock and mineralization is identical. Textural differences between some of the gold-bearing quartz veins suggest that several periods of veining, shearing, and silicification have occurred along trend.

Presently, the showings have been examined by prospecting, mapping, geophysics, and some limited trenching. These surveys have been performed only on the showings and therefore are incomplete with respect to entire claim coverage.

Further exploration of the Black River Property is recommended and should consist of continuing the mapping, prospecting, and geophysical surveys to cover any gaps within the present survey coverage. So far these survey have had very positive results in defining the extent of the gold showings on the property. Detailed examination of each showing by trenching and sampling is required with an intended result to define drill targets. Other methods of exploration would entail soil sampling and geophysical methods (ie. Phase I.P). Both soil conditions and mineralization is favorable for these surveys.

At present, drill targets exist on the property. Diamond drilling is recommended but without the above mentioned surveys completed on the property, there exists the chance of overlooking other drill targets within the Black River Lineament.

Respectfully submitted,



R.J. Dillman, B.Sc.
Geologist

January 3, 1993

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C E R T I F I C A T E

I, ROBERT JAMES DILLMAN, do hereby certify as follows:

- [1] THAT I am a Mining Exploration Geologist, and that I reside and carry on business at 42 Springbank Drive, in the City of London, Province of Ontario.
- [2] THAT I am a Graduate of the University of Western Ontario, with a Bachelor of Science Degree in Geology, 1992.
- [3] THAT I have been practising my profession since 1992.
- [4] THAT I have been actively prospecting in Canada since 1978.
- [5] THAT my Report, dated January 5, 1993, on the Black River Property of Grimsthorpe Township is based on information collected by myself between 1991 and the date of this report, and on other sources of information cited in this Report.
- [6] THAT I have a 100% interest in the Black River Property and any information given in this Report is as accurate as to the best of my knowledge, and THAT I am not making any false statements to better the position of the property for personal gain.

R.J. Dillman, B.Sc.


Dated at London, Ontario

This 8th day of January, 1993



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FAX: (416) 890-8575

14-Aug-91

MR. R. DILLMAN
42 Springbank Drive
London, ON
N6J 1E3

Page: 2
Copy: 1 of 1

Attn: R.Dillman
Project:

Received: 19-Jul-91 17:03

PO #:

Job: 911211 Status: Final

Sample	Au	
	FA/AA1	ppb
77476		5
77477		5
77478		5
77479		<3
77480		<3
77482		1200
77483		<3
77485		105
77486		250
77487		130



5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

26-Sep-91

MR. R. DILLMAN
42 Springbank Drive
London, ON
N6J 1E3

Page: 1
Copy: 1 of 2

Attn: R.Dillman
Project:

Received: 24-Sep-91 13:59

PO #:

Job: 911323

Status: Final

Au
FA/AA1
Sample ppb

77488 11
77489 61
77490 20
77491 570
77492 16
77493 10
77494 6780
77495 35
77496 19
77497 24

77498 16
77499 10
77500 74
78051 13
78052 6
78053 8
78054 7
78055 80
78056 8

Abbreviations:

Parameters:

Au : Gold

Methods:

FA/AA1 : Fireassay/Atomic Absorption(1 assay ton)



5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

9-Oct-91

R.Dillman

42 Springbank Drive
London, ON
N6J 1E3

Page: 2
Copy: 1 of 2

Attn: R.Dillman
Project:

Received: 3-Oct-91 14:58

PO #:

Job: 911334

Status: Final

<u>Sample</u>	<u>Au</u> <u>FA/AA1</u> <u>ppb</u>
78057	17
78058	16
78059	62
78060	6
78061	7
78062	9
78063	8
78064	3
78065	160
78066	5
78067	270
78068	836
78069	8
78070	65
78071	5
78072	7
78073	885
78074	970
78075	327

Abbreviations:

Parameters:

Mo

: Molybdenum SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES



5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

21-Oct-91

R.Dillman

Apt#3,42 Springbank Dr.
London, ON
N6J 1E3

Page: 1
Copy: 1 of 2

Attn: R.Dillman
Project:

Received: 16-Oct-91 11:19

PO #:

Job: 911341

Status: Final

Sample	Au FA/AA1 ppb
78101	1790
78102	1700
78103	1730
78104	870
78105	11500
78106	2410
78107	37
78108	9
78109	14
78110	5
78111	7
78112	7380
78113	68
78114	12500

Abbreviations:

Parameters:

Au : Gold

Methods:

FA/AA1 : Fireassay/Atomic Absorption(1 assay ton)

Units:

ppb : parts per billion

Job approved by:

Signed:

Margaret E. Dancziger
.....
Margaret E. Dancziger

Supervisor, Geochemistry/Fire Assay Services ENVIRONMENTAL SCIENCES



5735 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 PHONE: (416) 890-8566
 FAX: (416) 890-8575

31-Oct-91

R.Dillman

Page: 2
 Copy: 1 of 2

42 Springbank Dr.
 London, ON
 N6J 1E3

Attn: R.Dillman
 Project:

Received: 29-Oct-91 08:43

PO #:

Job: 911354

Status: Final

Sample	Au FA/AA1 ppb
78120	196
78121	2130
78122	5
78123	5120
78124	69
78125	2010

Abbreviations:

Parameters:

Au : Gold

Methods:

FA/AA1 : Fireassay/Atomic Absorption(1 assay ton)

Units:

ppb : parts per billion

Job approved by:

Signed:

Margaret E. Dancziger

 Margaret E. Dancziger
 Supervisor, Geochemistry/Fire Assay Services

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8568
FAX: (416) 890-8575

16-Jun-92

HOMESTAKE MINERAL DEVELOPMENT COMPANY
Suite 2116
120 Adelaide St. West
Toronto, ON
M5H 1T1

Page: 8
Copy: 1 of 2

Attn: B. Christie
Project:

PO #:

Received: 29-May-92 15:38

Job: 921043

Status: Preliminary

Sample Id	Au	As
	FA/AA ppb	Hyd-AA ppm
	Rocks	
DG - 5512	5	2.3
5513	<5	2.3
5514	8	0.8
5515	<5	1.4
5516	11	2.1
5517	16	1.0
5518	14921	21000
5519	54	150.

Rocks

5520 114 46.0

Rocks

5521 14 15.0



5735 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 PHONE: (416) 890-8586
 FAX: (416) 890-8575

16-Jun-92

HOMESTAKE MINERAL DEVELOPMENT COMPANY
 Suite 2116
 120 Adelaide St. West
 Toronto, ON
 M5H 1T1

Page: 9

Copy: 1 of 2

Attn: B. Christie
 Project:

Received: 29-May-92 15:38

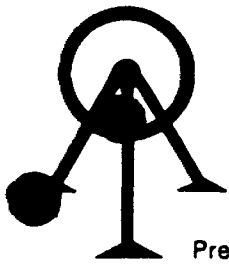
PO #:

Job: 921043

Status: Preliminary

Rocks

Sample Id	Au	As
	FA/AA DDb	Hyd-AA DDs
5522	1921	16000
5523	15	80.0
5524	506	7000.
5525	9	30.0
5526	70	21000
5527	1201	34000



ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46044

Certificate of Analysis

Page: 1

Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

October 14

92

Work Order # : 920371
Project :

SAMPLE NUMBERS		Gold	Gold
Accurassay	Customer	ppb	Oz/T
260724	69551	339	0.010
260725	69552	117	0.003
260726	69553	314	0.009
260727	69554	1332	0.039
260728	69555	9	<0.001
260729	69556	77	0.002
260730	69557	<5	<0.001
260731	69558	<5	<0.001
260732	69559	6	<0.001
260733	69560	5	<0.001
260733	69560	5	<0.001
260734	69561	3505	0.102
260735	69562	927	0.027
260736	69563	37	0.001
260737	69564	56832	1.654
260738	69565	682	0.020
260739	69566	680	0.020
260740	69567	33	0.001
260741	69568	13	<0.001
260742	69569	3327	0.097
260742	69569	2891	0.084
260743	69570	3535	0.103
260744	69571	7	<0.001
260745	69572	19	0.001
260746	69573	9	<0.001
260747	69574	8	<0.001
260748	69575	10	<0.001
260749	69601	<5	<0.001
260750	69602	534	0.016
260751	69603	20218	0.588
260751	69603	17089	0.497

Check

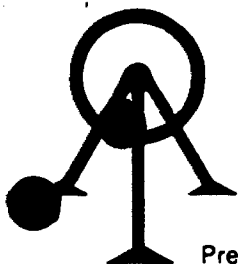
Check

Check



Per: *G. Duncan*

ORIGINAL



ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46045

Certificate of Analysis

Page: 2

Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

October 14

92

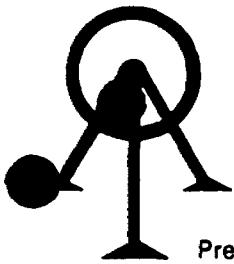
Work Order # : 920371
Project :

SAMPLE NUMBERS		Gold	Gold
Accurassay	Customer	ppb	Oz/T
260752	69604	2208	0.064
260753	69605	2267	0.066
260753	69605	2069	0.060 Check



Per: _____

G. Duncan



ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46172

Certificate of Analysis

Page: 1

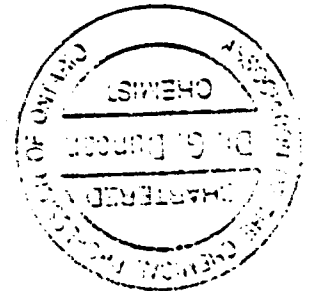
Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

October 21

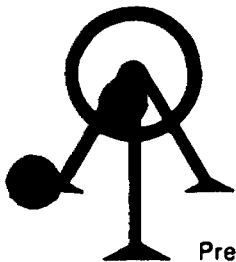
92

Work Order # : 920389
Project :

SAMPLE NUMBERS Accurassay	CUSTOMER	Gold ppb	Gold Oz/T	
260992	69606	5	<0.001	
260993	69607	<5	<0.001	
260994	69608	<5	<0.001	
260995	69609	94	0.003	
260996	69610	117	0.003	
260997	69611	582	0.017	
260998	69612	9	<0.001	
260999	69613	18	0.001	
261000	69614	28	0.001	
261001	69615	39	0.001	
261001	69615	38	0.001	Check
261002	69616	8	<0.001	
261003	69617	<5	<0.001	
261004	69618	<5	<0.001	
261005	69619	<5	<0.001	
261006	69620	480	0.014	
261007	69621	968	0.028	
261008	69622	3386	0.099	
261009	69623	1569	0.046	
261010	69624	123	0.004	
261010	69624	145	0.004	Check
261011	69625	35	0.001	
261012	69626	241	0.007	
261013	69627	<5	<0.001	
261014	69628	94	0.003	
261015	69629	573	0.017	
261016	69630	<5	<0.001	
261017	69631	15	<0.001	
261018	69632	<5	<0.001	
261019	69633	5	<0.001	
261019	69633	11	<0.001	Check



Per: G. Duncan



ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46173

Certificate of Analysis

Page: 2

Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

October 21

92

Work Order # : 920389
Project :

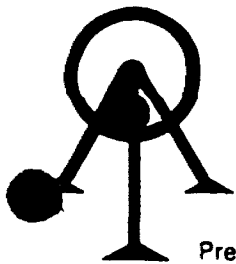
SAMPLE NUMBERS		Gold	Gold	
Accurassay	Customer	ppb	Oz/T	
261020	69634	1301	0.038	
261021	69635	<5	<0.001	
261021	69635	<5	<0.001	Check



Per: _____

D. Duncan

ORIGINAL



ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46404

Certificate of Analysis

Page: 1

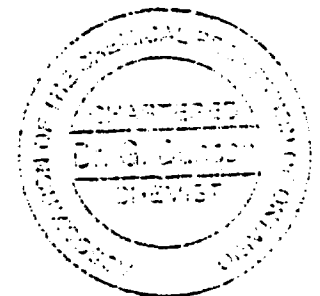
Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

November 6

92

Work Order # : 920412
Project :

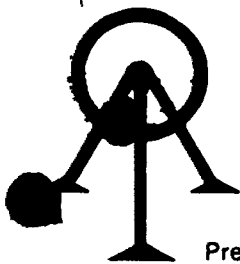
Accurassay	SAMPLE NUMBERS Customer	Gold ppb	Gold Oz/T		
	261199	69636	795	0.023	
	261200	69637	9	<0.001	
	261201	69638	5	<0.001	
	261202	69639	2832	0.082	
	261203	69640	16	<0.001	
	261204	69641	710	0.021	
	261205	69642	13	<0.001	
	261206	69643	102	0.003	
	261207	69644	<5	<0.001	
	261208	69645	136	0.004	
	261208	69645	74	0.002	Check
	261209	69646	41	0.001	
	261210	69647	3119	0.091	
	261211	69648	5525	0.161	
	261212	69649	4426	0.129	
	261213	69650	37	0.001	
	261214	69651	164	0.005	
	261215	69652	1881	0.055	
	261216	69653	527	0.015	
	261217	69654	72	0.002	
	261217	69654	185	0.005	Check
	261218	69655	7	<0.001	
	261219	69656	3059	0.089	
	261220	69657	672	0.020	
	261221	69658	2168	0.063	
	261222	69659	21911	0.638	
	261223	69660	16	<0.001	
	261223	69660	15	<0.001	Check



Per: _____

G. Duncan

ORIGINAL



ACCURASSAY LABORATORIES
 A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
 BOX 426
 KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
 TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46362

Certificate of Analysis

Page: 1

Dillman, Mr. R.
 42 Springbank Dr.
 LONDON, Ontario
 N6J 1E3

November 19 92

Work Order # : 920426
 Project :

SAMPLE NUMBERS Accurassay	CUSTOMER	Gold ppb	Gold Oz/T	
261489	69661	553	0.016	
261490	69662	6	<0.001	
261491	69663	1090	0.032	
261492	69664	1644	0.048	
261493	69665	41	0.001	
261494	69666	65	0.002	
261495	69667	18	0.001	
261496	69668	10	<0.001	
261497	69669	724	0.021	
261498	69670	1095	0.032	
261498	69670	1077	0.031	Check
261499	69671	2347	0.068	
261500	69672	5	<0.001	
261501	69673	7	<0.001	
261502	69674	340	0.010	
261503	69675	1097	0.032	
261504	69676	188	0.005	
261505	69677	1225	0.036	
261506	69678	361	0.011	
261507	69679	1263	0.037	
261507	69679	1064	0.031	Check
261508	69680	58	0.002	
261509	69681	85	0.002	
261510	69682	4634	0.135	
261511	69683	4446	0.129	
261512	69684	20	0.001	
261513	69685	2782	0.081	
261513	69685	2822	0.082	Check



Per: *G. Duncan*



Ministry of
Northern Development
and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W9390.00058

63.6302

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Instructions: - Please type or print and submit in duplicate.

- Refer

- Recd

- Asses

- Techn

- Asses



31C145W8621 63.6302 GRIMSTHORPE

900

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT WORK GROUP FILES

NOV 15 1993

Company this form.

RECEIVED

Recorded Holder(s) ROBERT JAMES DILLMAN	Client No. 125989
Address 42 SPRINGBANK DRIVE, LONDON ONTARIO, N6J 1E3	Telephone No. (519) 645-2612
Mining Division SOUTHERN ONTARIO DIVISION	Township/Area GRIMSTHORPE TOWNSHIP
	M or G Plan No. M 97
Dates Work Performed From: SEPT. 30, 1992 To: NOV. 12, 1992	

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	TRENCHING (MANUAL)
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 1328

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
ROBERT J. DILLMAN	42 SPRINGBANK DRIVE, LONDON, ONTARIO

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date JULY 16, 1993	Recorded Holder or Agent (Signature) <i>R.J. Dillman</i>
--	------------------------------	---

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying ROBERT J. DILLMAN, 42 SPRINGBANK DRIVE, LONDON, ONTARIO, N6J 1E3		
Telephone No. (519) 645-2612	Date JULY 16, 1993	Certified By (Signature) <i>R.J. Dillman</i>

For Office Use Only

Total Value Cr. Recorded \$1,328	Date Recorded <i>Sept 8/93</i>	Mining Recorder <i>D. Gallimore</i>	<table border="1"> <tr> <td colspan="2">SOUTHERN ONTARIO MINING DIVISION</td> </tr> <tr> <td colspan="2">RECEIVED</td> </tr> <tr> <td colspan="2">JUL 21 1993</td> </tr> <tr> <td>AM</td> <td>PM</td> </tr> <tr> <td>7,8,9,10,11,12,1,2,3,4,5,6</td> <td></td> </tr> </table>	SOUTHERN ONTARIO MINING DIVISION		RECEIVED		JUL 21 1993		AM	PM	7,8,9,10,11,12,1,2,3,4,5,6	
	SOUTHERN ONTARIO MINING DIVISION												
	RECEIVED												
JUL 21 1993													
AM	PM												
7,8,9,10,11,12,1,2,3,4,5,6													
Deemed Approval Date <i>Oct 19/93</i>	Date Approved <i>Sept 8/93</i>												
Date Notice for Amendments Sent													

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1150984	2
	1156654	2
	1156653	2
3		
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
600	600
161	161
567	567
1328	1328
Total Value Work Done	Total Value Work Applied

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: *Robert D. Hillman* Date: JULY 16, 1993



**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour/TRENCHING Main-d'œuvre	1108	
	Field Supervision Supervision sur le terrain		1108
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			1108

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	ROAD \$0.30/km	230	
			230
Food and Lodging Nourriture et hébergement	FOOD & LODGING	262	262
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			492
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			220
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			1328
Valeur totale du crédit d'évaluation (Total des coûts directs et Indirects admissibles)			1328

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as RECORDED HOLDER I am authorized
(Recorded Holder, Agent, Position in Company)

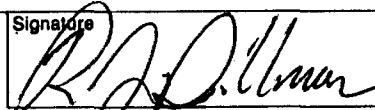
to make this certification

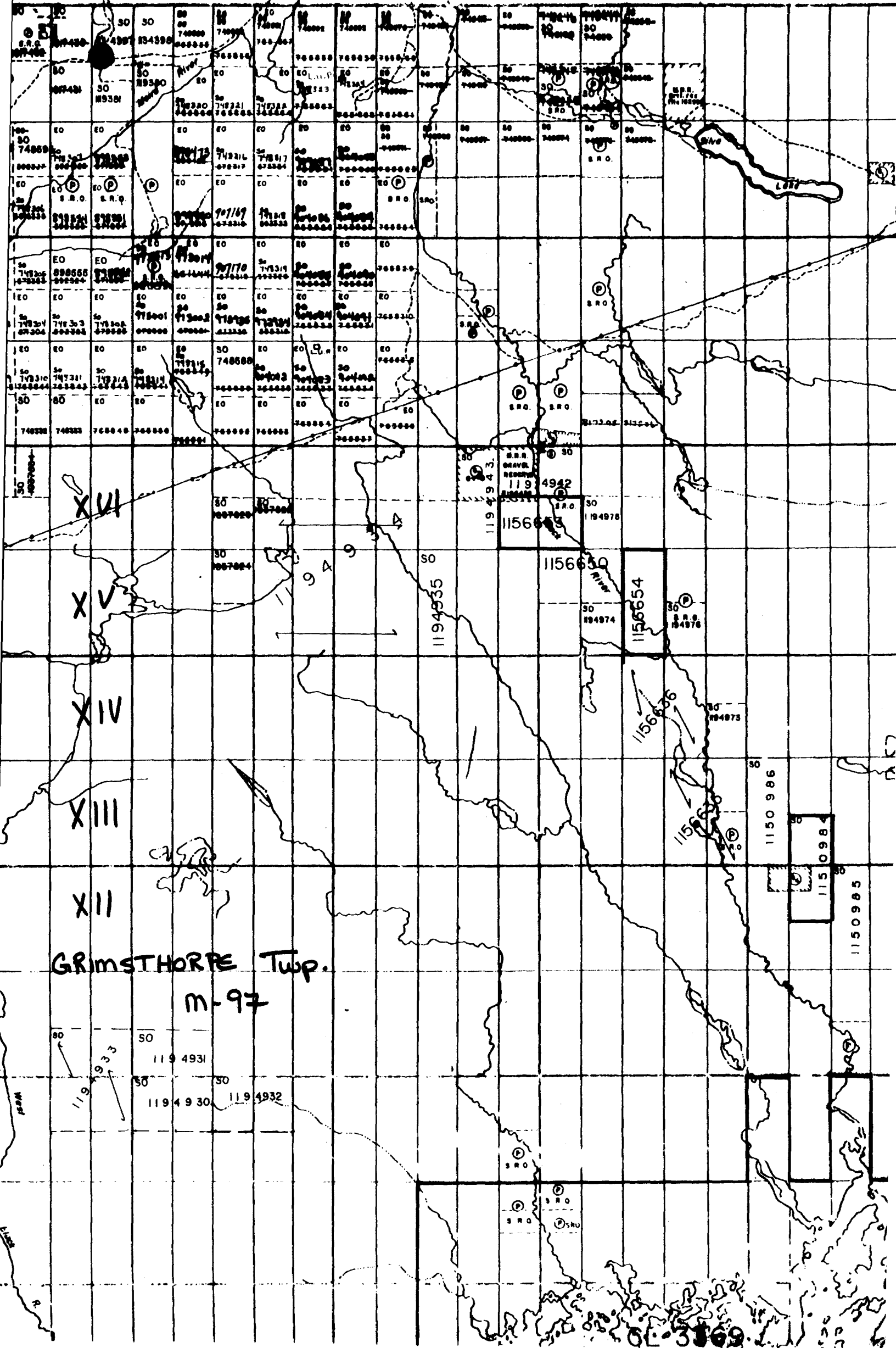
Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature  Date
JULY 16, 1993



Grimsthorpe Twp.
M-97

119 4931
119 4930 119 4932

119 4942
1156653

1194935
1156650

1156654

1156656

1150986

1150984

1150985

OL-3169



Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à la correspondance. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5; téléphone : (705) 670-7264.

- Directives :**
- Dactylographier ou écrire en lettres moulées.
 - Se reporter à la Loi sur les mines et aux règlements pour connaître les directives de dépôt des travaux d'évaluation ou consulter le registrateur de claims.
 - Remplir une formule pour chaque groupe de travaux.
 - Joindre à la présente formule deux exemplaires des rapports techniques et des cartes.
 - Joindre à la présente formule une esquisse indiquant les claims ayant fait l'objet des travaux.

Titulaire(s) enregistré(s) ROBERT JAMES DILLMAN		N° de client 125989
Adresse 42 SPRINGBANK DRIVE, LONDON, ONTARIO, N6J 1E3		N° de téléphone (519) 645-2612
Division des mines SOUTHERN ONTARIO DIVISION	Canton/secteur GRIMSTHORPE TOWNSHIP	N° de plan M ou G M 97
Dates d'exécution des travaux du : SEPT. 30, 1992 au : NOV. 12, 1992		

Travaux exécutés (cocher un seul groupe de travaux)

Groupe de travaux	Genre
<input type="checkbox"/> Levé géotechnique	
<input checked="" type="checkbox"/> Travaux physiques, y compris forage	TRENCHING (MANUAL)
<input type="checkbox"/> Réhabilitation	
<input type="checkbox"/> Autres travaux autorisés	
<input type="checkbox"/> Essais	
<input type="checkbox"/> Valeur transférée de la réserve	

Total des travaux d'évaluation réclamé sur le relevé des frais ci-annexé 1328 \$

Nota : Le ministre peut rejeter une partie ou la totalité des travaux d'évaluation présentés pour obtenir des crédits d'évaluation si le titulaire enregistré ne peut vérifier les dépenses réclamées sur le relevé des frais dans les trente jours suivant une demande de vérification.

Les personnes et la compagnie d'arpentage qui ont exécuté les travaux (donner le nom et l'adresse de l'auteur du rapport)

Nom	Adresse
ROBERT JAMES DILLMAN	42 SPRINGBANK DRIVE, LONDON, ONTARIO

(joindre une annexe au besoin)

Certification d'intérêt bénéficiaire * Voir la note n° 1 au verso

Je certifie qu'au moment où les travaux ont été exécutés, les claims dont il est question dans le présent rapport étaient enregistrés au nom de leur titulaire actuel ou détenus à titre bénéficiaire par l'actuel titulaire enregistré.	Date JULY, 16, 1993	Titulaire enregistré ou représentant (Signature)
--	-------------------------------	--

Certification du rapport sur les travaux exécutés

Je certifie que j'ai une connaissance directe des faits exposés dans le présent rapport, pour avoir exécuté les travaux ou en avoir constaté l'exécution avant ou après leur achèvement. Je certifie aussi que le rapport ci-annexé est exact.

Nom et adresse du certificateur ROBERT J. DILLMAN 42 SPRINGBANK DRIVE, LONDON, ONTARIO, N6J 1E3		
N° de téléphone (519) 645-2612	Date JULY 16, 1993	Certifié par (signature)

Réservé au ministère

Valeur totale des crédits enregistrés	Date d'enregistrement	Registrateur de claims	SOUTHERN ONTARIO MINING DIVISION RECEIVED JUL 21 1993 AM 7,8,9,10,11,12,1,2,3,4,5,6 PM
	Date de l'approbation prévue	Date d'approbation	
	Date d'envoi de l'avis de modification		



**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour/TRENCHING Main-d'œuvre	1108	
	Field Supervision Supervision sur le terrain		1108
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			1108

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	ROAD \$0.30/km	230	
			230
Food and Lodging Nourriture et hébergement	FOOD & LODGING	262	262
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			230
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			220
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			1328
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			1328

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

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Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

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that as **RECORDED HOLDER** I am authorized
(Recorded Holder, Agent, Position in Company)

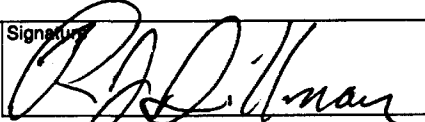
to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
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Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature  Date
JULY 16, 1993

69574 8 ppb Au

qtz-feld-bio schist
Tr. py+po
float

69639 2832 ppb Au
qtz float similar to quartz in trench, granular, medium grained, 5% clotted arsenopyrite

69638 5 ppb Au
qtz-feld-bio schist + argillite + greenschale
1-3% disseminated py+po
White crystalline quartz vein <20cm
weak disseminated pyrite, pyrite clotted
near/in wallrock contact.
69637 9 ppb Au

69673 9 ppb Au
quartz-feldspar-biotite schist,
biotite fracture controlled and
along schist planes, minor argillite +
greenschale beds, white crystalline
quartz stringers <2cm wide parallel
foliation and are weakly dispersed
throughout outcrop, 1-3% pyrite +
pyrrhotite disseminated in schists.

X quartz-feldspar-biotite
schist

69681 81 ppb Au/1.1m
quartz-feldspar-biotite schist +
minor greenschale beds, Tr-3%
disseminated pyrite + pyrrhotite,
strong foliation, moderate
silicification adjacent to
quartz vein, contact
with vein is sharp

69682 4634 ppb Au/0.3m
Quartz, medium grained and
granular, fragments of schist
incorporated in vein, 10%
clotted to semi-massive
arsenopyrite.

69683 4446 ppb Au/0.25m
aplite dike, fine grained
3% moderately foliated biotite,
moderate silicification and irregular orientated
veining of white-crystalline quartz
<3cm wide,
contact with vein irregular.

69570 3535 ppb Au
trench debris
wallrock

69569 3327 ppb Au
69564 56,832 ppb Au
5518 14,921 ppb Au
78123 5120 ppb Au

GRID LOCATION
36+80N, 0+77E

X aplite dike,
fine grained,
strong biotite foliation
and fracture filling
Tr. pyrite

69675 10 ppb Au
float
qtz-feld-bio schist
Tr. py+po

69672 19 ppb Au
quartz-feld-bio schist + argillite,
greenschale + argillite,
Tr-5% py+po
strong foliation, biotite
on cleavages.

very gossanous
meta-sediment schists
1-3% pyrite
1-3% pyrrhotite
aplite dike
contact sheared

69643 102 ppb Au/4 m
qtz-feld-bio schist +
argillite + greenschale, biotite
on cleavage planes, minor
shear planes parallel foliation,
some chlorite and qtz stringers
present in sheared sections
Tr-3% disseminated to stringers
pyrite, Tr-1% disseminated
po.

69642 13 ppb Au
float, not observed in trench
sugary, granular qtz with
brecciated fragments of qtz-feld-
bio schist, 3% arsenopyrite

69641 710 ppb Au

69668 10 ppb Au
white-crystalline quartz vein, <25cm wide
boudinaged, clotted pyrite <5%

69667 18 ppb Au/0.9 m
qtz-feld-bio schist, moderate shearing,
weakly chloritized, some white qtz
stringers present <2.5cm
pyrite in wallrock + stringers
Tr-5% py, Tr po

69665 41 ppb Au/0.4 m

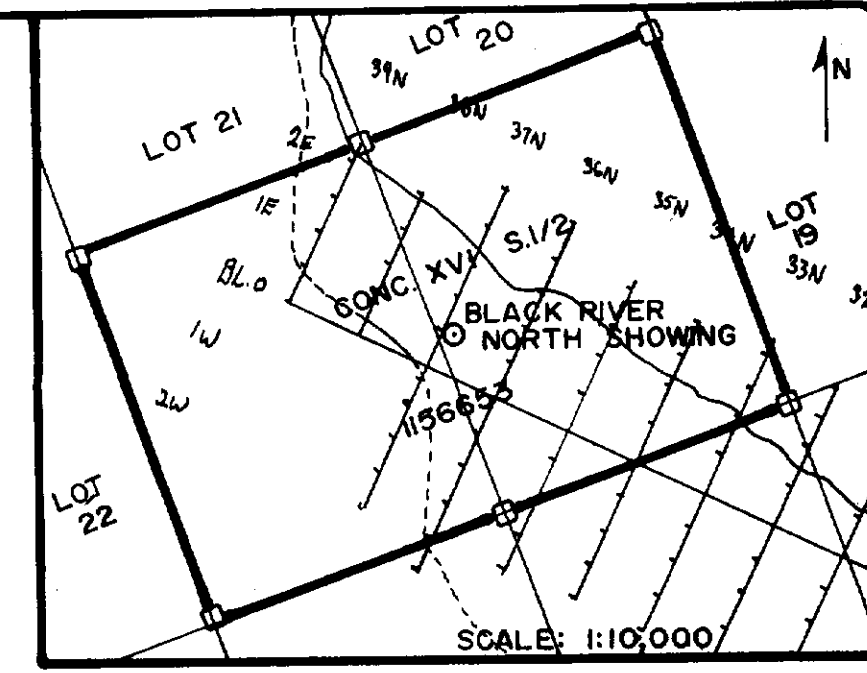
69666 65 ppb Au/0.2 m
float, found
during trenching, granular
quartz with meta-sediment
fragments, 3% arsenopyrite

69669 724 ppb Au
trench debris

5517 16 ppb Au
aplite dike, fine grained
biotite-chlorite clots, jointed,
white qtz stringers
Tr pyrite,

5516 11 ppb Au
qtz-feld-bio schist
minor greenschale beds
Tr-3% disseminated pyrite +
pyrrhotite

GRID LOCATION
36+60N, 0+70E



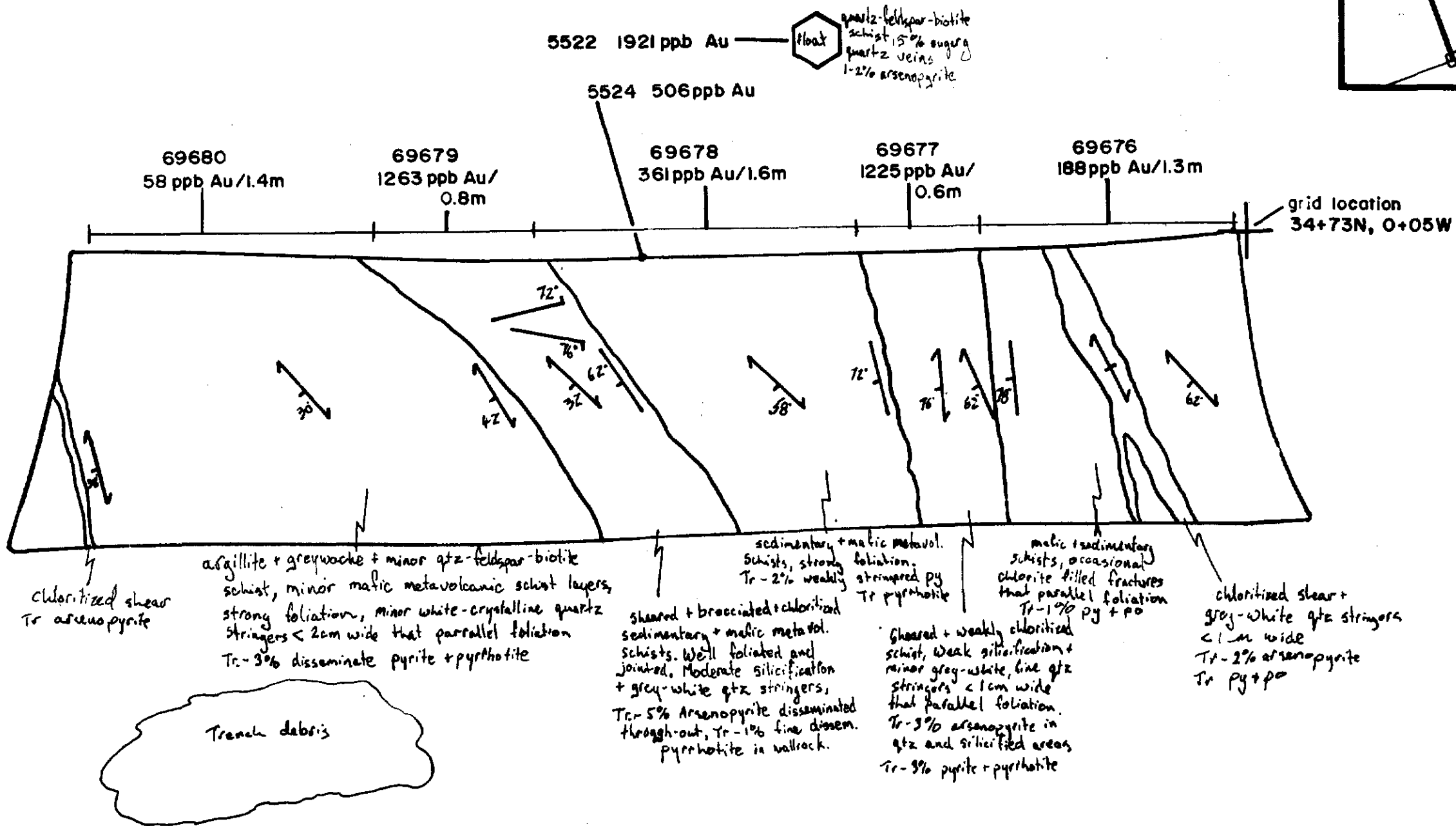
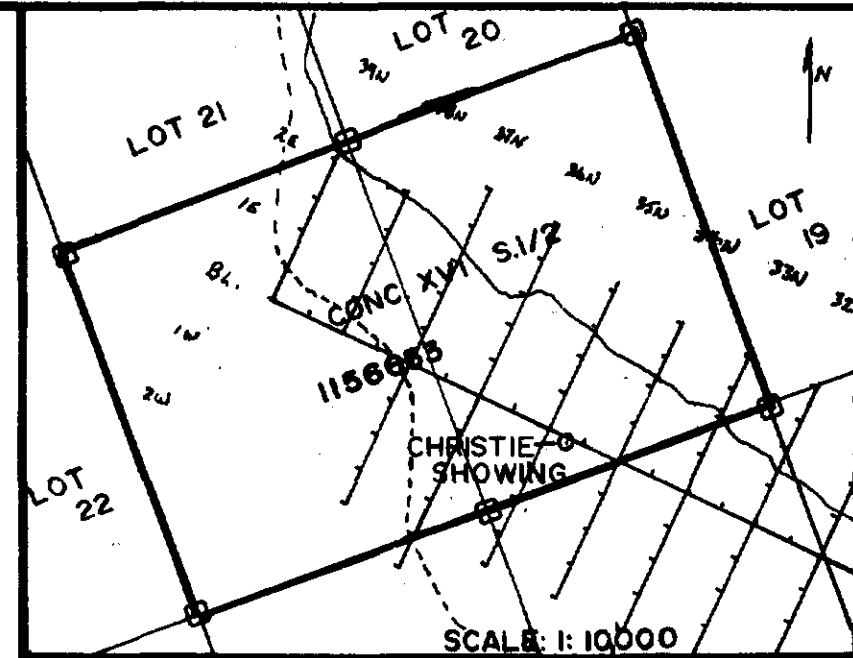
TRUE NORTH



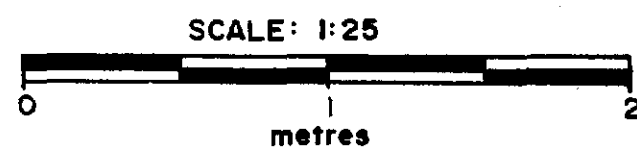
63.6302

BLACK RIVER NORTH SHOWING	
TRENCH PLAN	
GRIMSTHORPE TWP., ONTARIO	
SCALE: 1:50	PLAN N° TR-1
DATE: DEC. 1992	DRAWN BY: RJD.





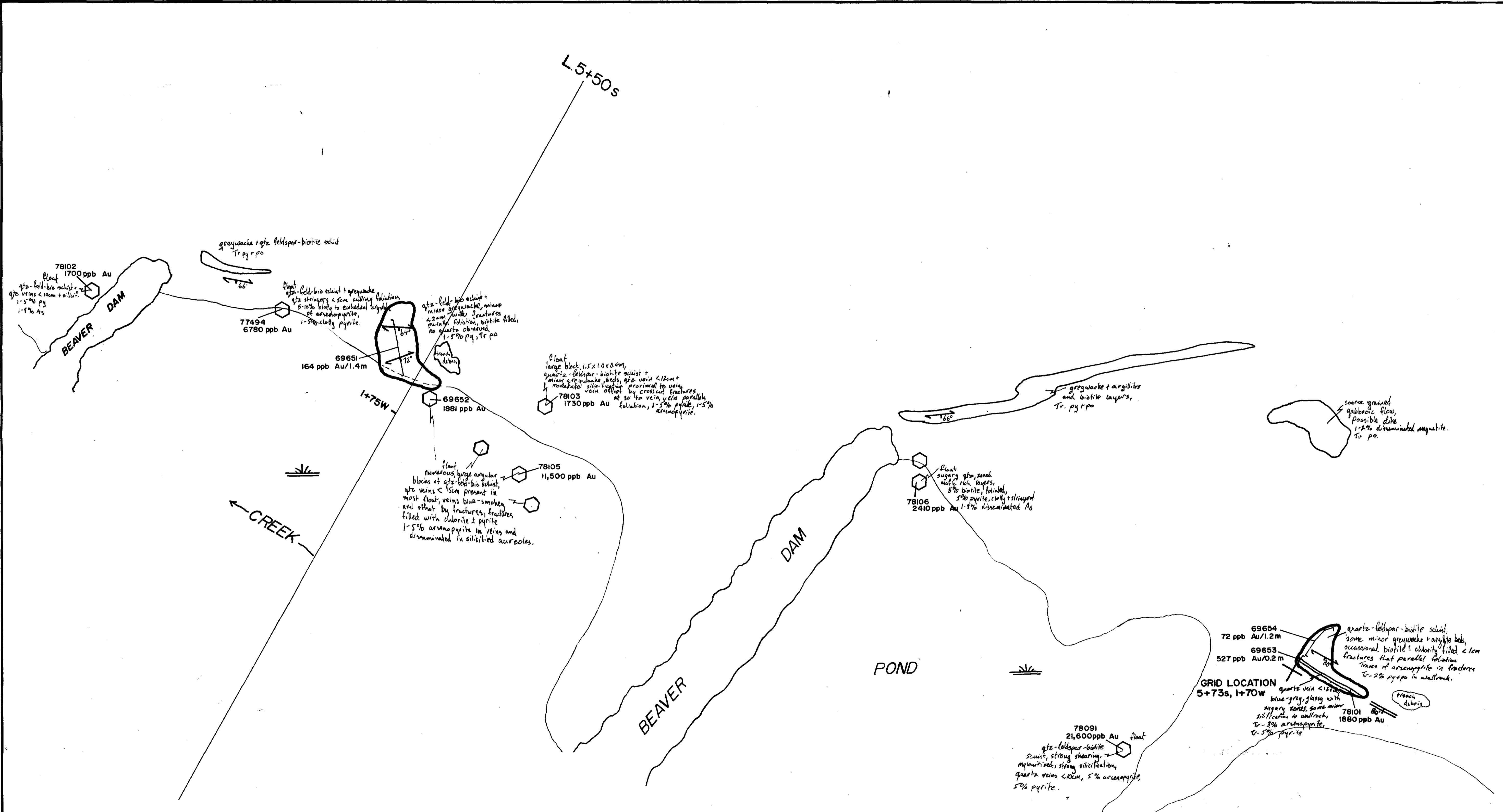
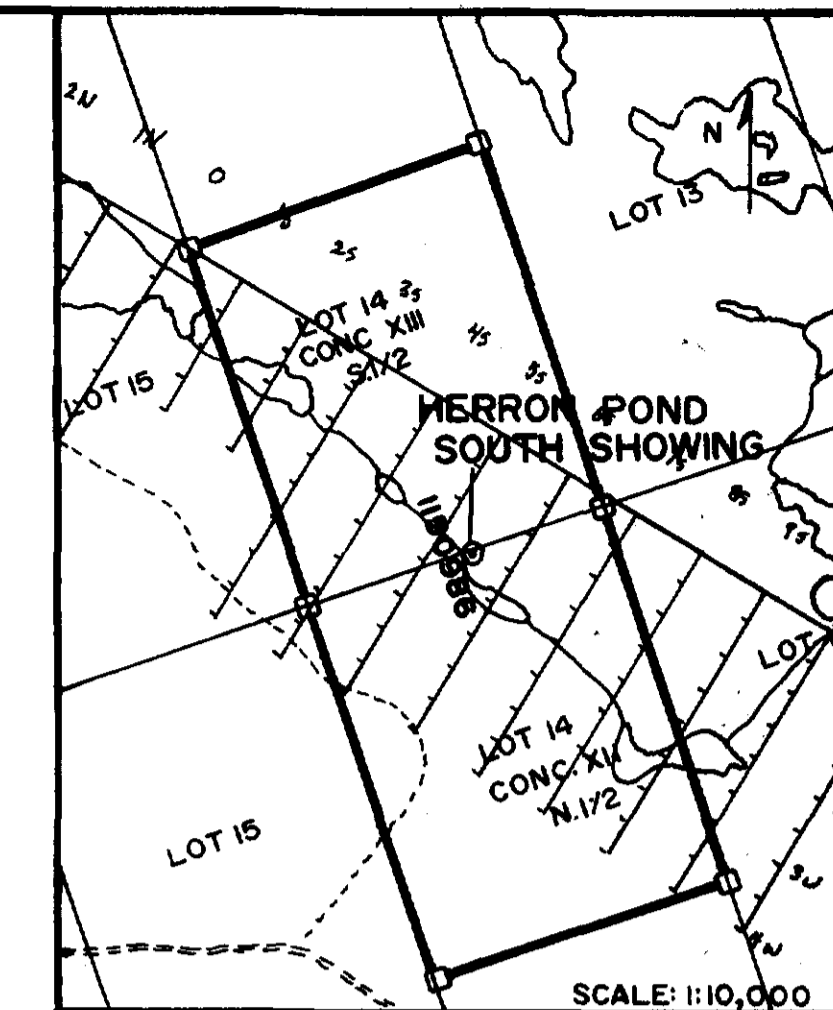
69636 795 ppb Au — float qtz + quartz-feldspar-biotite schist, 5% subhedral arsenopyrite in quartz.



63.6302

CHRISTIE SHOWING	
TRENCH PLAN: TR-2	
GRIMSTHORPE TWP.,	
ONTARIO	
DATE: DEC. 1992	DRAWN BY RJD





63-6302

HERRON POND SOUTH SHOWING	
TRENCH PLAN	
GRIMSTHORPE TWP., ONTARIO	
SCALE: 1:50	PLAN N° TR-5
DATE: DEC. 1992	DRAWN BY RJD